

TA-AV790ESD

SERVICE MANUAL

AEP Model
E Model



SPECIFICATIONS

Amplifier section

AEP1, German, E Model

Items	Condition	Data
Continuous RMS power output	4 ohms, DIN 1kHz	Front: 80 W + 80 W Center: 80 W Rear: 40 W + 40 W
	4 ohms, DIN 1kHz	Front: 100 W + 100 W
	4 ohms, 20 Hz - 20 kHz	Front: 50 W + 50 W
Total harmonic distortion	4 ohms, at 10 W output	Front: 0.03 %

AEP2 Model

Items	Condition	Data
Continuous RMS power output	8 ohms, DIN 1kHz	Front: 70W + 70W Center: 70W Rear: 35W + 35W
	8 ohms, DIN 1kHz	Front: 80W + 80W
	8 ohms, 20 Hz - 20 kHz	Front: 45W + 45W
Total harmonic distortion	8 ohms, at 10W output	Front: 0.03 %

Note:

There are two type of AEP models which are depend on countries.

AEP2 : Model for Scandinavian countries, Switzerland, Spain and Portugal.

AEP1 : Model for other European countries.

Input

	Input jack	Sensitivity	Impedance
Audio	PHONO	2 mV	50 kilohms
	TUNER, TAPE, DAT/MD, VIDEO 1, 2, 3, 4, LD, TV	150 mV	
	CD	220 mV	
Video	VIDEO 1, 2, 3, 4, LD (phono jack)	1 Vp-p	75 ohms
	S VIDEO VIDEO 1, 2, LD	Luminance (Y) 1 Vp-p Chrominance (C) 0.286 Vp-p	75 ohms

Output

	Output jack	Sensitivity	Impedance
Audio	TAPE, DAT/MD VIDEO 1, 2, 3	150 mV	470 ohms
	HEADPHONES	3 mW (8 ohms)	Applied to low and high impedance headphones
	CENTER (MASTER VOLUME: center)	1.8 V	2 kilohms
Video	MONO (MASTER VOLUME: center)	1.8 V	2 kilohms
	VIDEO 1, 2, 3, MONITOR (phono jack)	1 Vp-p	75 ohms
	S VIDEO VIDEO 1, 2, MONITOR	Luminance (Y) 1 Vp-p Chrominance (C) 0.286 Vp-p	75 ohms

— Continued on next page —

INTEGRATED AV AMPLIFIER
SONY®

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使用時は添付資料も参考のこと
Refer to the additional documents.

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Digital signal processor section

Surround parameter	
ROOM	17-step adjustable
WALL	17-step adjustable
SEAT F/R and L/R	17-step adjustable
EFFECT	21-step adjustable
REV.	17-step adjustable
DELAY	15.0 ms - 30.0 ms, 0.1 ms step
REAR	+ 10 - 50 dB, 1 dB step
CENTER	+ 10 - 50 dB, 1 dB step
CENTER EQ	100 Hz, 330 Hz, 1 kHz, 3.3 kHz, 10 kHz ± 6 dB, 1 dB step
Tone control	BASS: 100 Hz, ±10 dB TREBLE: 10 kHz, ±10 dB
General	
Power requirements	AEP1, AEP2, German Model 220 - 230V AC, 50/60Hz E Model 120/220/240 V AC, adjustable with the voltage selector, 50/60 Hz
Power consumption	390 W
AC outlet	Switched, less than 100 W
Dimensions	Approx. 430 x 135 x 360 mm (w/h/d) (17 x 5 3/4 x 14 1/4 inches)
Mass	Approx. 14.5 kg (21 lb 10 oz)
Supplied accessories	Remote commander RM-P790 (1) Sony batteries SUM-3 (NS) (2)

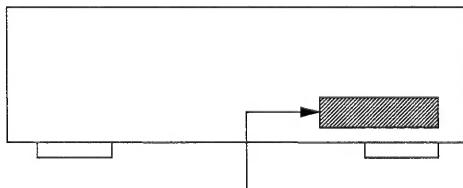
Design and specifications are subject to change without notice.

Note

This appliance conforms with EEC Directive 87/308/EEC regarding
interference suppression.

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MODEL IDENTIFICATION — BACK PANEL —



TA-AV790ESD :

- 4-966-126-2□ : AEP1 model
- 4-966-126-3□ : AEP2 model
- 4-966-126-4□ : German model
- 4-966-126-5□ : E model

Note:

There are two type of AEP models which are depend on countries.
AEP2 : Model for Scandinavian countries, Switzerland,
Spain and Portugal.
AEP1 : Model for other European countries.

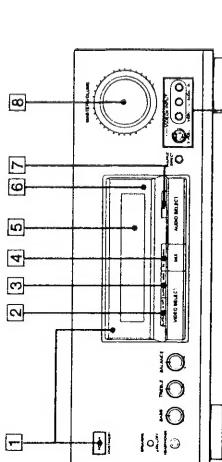
SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY MARK Δ OR DOTTED LINE WITH MARK Δ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

A Identifying the Parts and Controls

Refer to the pages indicated in () for details.

Front Panel and Display A



① POWER switch and standby indicator

When the AC cord is plugged in, the indicator lights to show that the main unit is in standby mode. When the POWER switch is turned on, the indicator goes off.

② SURROUND ON/OFF button (68)

Turns on and off the surround mode.

③ SURROUND MODE button and indicators (66, 58, 68, 74)

Press to change the surround mode. Each time this button is pressed, the surround mode changes as follows: DOLBY SUR → THEATER 1 → THEATER 2
↓ STADIUM ↑ LIVE
↓ JAZZ ↓ OPERA ↓ HALL

④ CENTER MODE button and indicators (54, 56)

In the DOLBY SUR, THEATER 1, THEATER 2 or LIVE mode, select the CENTER MODE according to the speaker placement. Each time this button is pressed, the CENTER MODE changes as follows: PHANTOM ↑ NORMAL ↓ 3 CH LOGIC ↓ WIDE

⑤ Display

⑥ Remote sensor

⑦ REC OUT button and REC OUT SET indicators (52)

When the recording source is selected with this button, other program sources can be played during recording.

Each time this button is pressed, the recording source changes as follows: VIDEO 1 → VIDEO 2 → VIDEO 3 → VIDEO 4
↓ off ↓ ← TV ← ↓ LD

⑧ MASTER VOLUME control (38)

Adjusts the sound volume. To increase the volume, turn the control clockwise. To decrease the volume, turn the control counter-clockwise.

⑨ VIDEO 4 INPUT jacks (20)

Use when connecting the video camera, etc.

(to be continued)

A Identifying the Parts and Controls

(continued)

⑩ SOURCE DIRECT button and indicator (40)

Press this button to listen to the sound without sound effect. The settings of surround, center equalizer, BASS, TREBLE and BALANCE have no effect.

⑪ AUDIO SELECT button and indicators (38, 42, 48, 52)

Selects the audio program source.

⑫ MIX button and indicator (42)

Press to combine a visual source and an audio source. Each time this button is pressed, the display changes as follows: VISUAL ↔ AUDIO ↔ off

⑬ VIDEO SELECT button and indicators (38, 42, 48, 50, 52)

Selects the video program source.

⑭ BALANCE control (40)

Adjusts balance of the front speaker sound. Normally set to the center position.

⑮ BASS/TREBLE controls (40)

Adjust the BASS and TREBLE sound. Normally, set to the center position.

⑯ HEADPHONES jack

Accepts the stereo phone plug of headphones. The jack outputs the sound of front speakers only. To listen to the program source only with the headphones, set the SPEAKERS switch to OFF.

⑰ SPEAKERS switch (38)

Turn ON and OFF the front, center and rear speakers.

⑱ DIGITAL 1, 2, 3 indicator (44)

When a digital component is assigned to the OPTICAL DIGITAL IN jack, the corresponding indicator lights.

⑲ Sampling frequency indicators

Indicates the sampling frequency which corresponds to the digital input signal.

⑳ MEMORY indicator (44)

Lights when the ENTER button is pressed for storing the assignment of the OPTICAL DIGITAL jacks or storing the index name of program source.

㉑ Character display (44, 74)

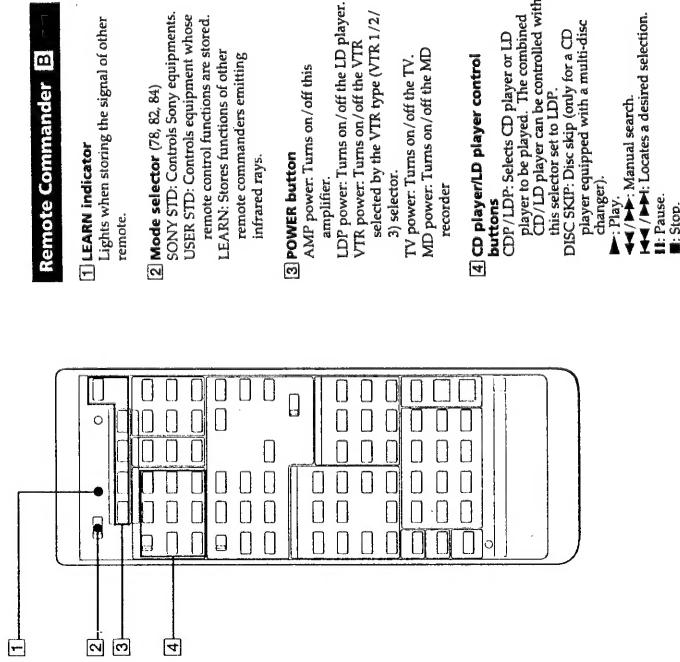
Shows the selected mode, program source or a state of operation.

This section is extracted from instruction manual.

Identifying the Parts and Controls

B

Remote Commander **B**



Identifying the Parts and Controls

(continued)

5 Tape deck/VCR control buttons

Before operating the tape deck/VCR control buttons, set the DECK/VTR selector and DECK type (DECK/TAPE/MD/DAT)/VTR type (VTR 1/2/3) selector according to the component you want to operate.

When operating the tape deck, MD

recorder or DAT deck:

DECK/VTR selector → DECK DECK type/VTR type selector → DECK DECK (tape deck), MD (MD recorder) or DAT (DAT deck)

When operating the VCR:

DECK/VTR selector → VTR DECK type/VTR type selector → VTR VTR 1: Betamax VCRs

VTR 2: 8 mm VCRs

VTR 3: VHS VCRs

■: Pause.

■: Stop.

◀/▶: Fast winding.

◀/▶: Play. (The ▲ button is used only for an auto reverse tape deck.)

● REC: Recording.

• For the recording with the VCR

Press both ● REC and ▲ at the same time.

• For the recording with the tape deck

Press both ● REC and ▲ or ▼ at the same time. When the recording does not start after performing this operation, press ▲ or ■ to cancel the recording pause mode.

The recording will start.

Following buttons can be used when the DECK/VTR selector is set to VTR.

DUAL: Selects bilingual programs.

TV/VTR: Selects the output signal from the antenna terminal on the VCR, either a TV signal or VCR programs. CH (channel) + / -: Select channel on the VCR.

6 DSP (Digital Signal Processor) CONTROL buttons

(46, 56, 58, 68, 74, 76)

TEST TONE: Turns on/off the test tone which allows you to adjust the front, center and rear speakers. The test tone can be heard only in DOLBY SUR mode.

PARAMETER: Selects a parameter to be adjusted.

CHARACTER: Used when assigning the name to the program source.

REAR/CENTER LEVEL: Selects the level adjusting mode between the rear speakers or center speaker.

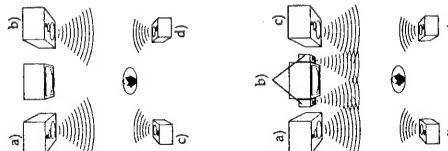
CENTER EQ: Used when adjusting the equalizer of the center speaker.

◀, ▶, □, △: Cursor buttons

CLEAR

ENTER

Preparing for the Surround Sound



Placement of Speakers and Selecting the Center Mode

Since all speakers are different, the unit offers you four types of speaker configurations (Phantom, 3 Ch Logic, Normal, Wide). To best fit your speaker system, you can change how the sound comes from each speaker by selecting one of these four configurations. Once you make the adjustments, you do not have to adjust them again unless you change your speaker system.

Each time you press the CENTER MODE button, the CENTER MODE is changed in the following order:

◀ PHANTOM → NORMAL → WIDE →

Phantom mode A

Select this mode when you play back a Dolby surround program source without using a center speaker. The sound of the center channel is output from the front (L and R) speakers.

- a) Front speaker (L)
- b) Rear speaker (R)
- c) Rear speaker (L)
- d) Rear speaker (R)

Normal mode B

Select this mode if you use a small center speaker(s). The bass sound of the center channel is output from the front speakers, as a small speaker cannot produce enough bass.

- a) Front speaker (L)
- b) Center speaker (R)
- c) Front speaker (R)
- d) Rear speaker (L)
- e) Rear speaker (R)

Wide mode C

Select this mode if you use a medium to big size center speaker.

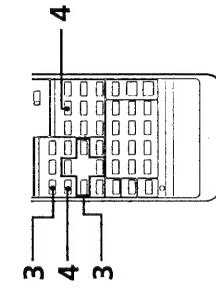
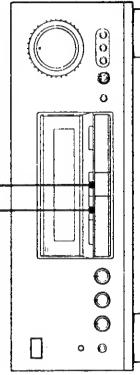
- a) Front speaker (L)
- b) Center speaker (L)
- c) Front speaker (R)
- d) Rear speaker (L)
- e) Rear speaker (R)

3 CH (channel) Logic mode D

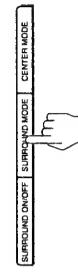
Select this mode when you play back a Dolby surround program source only with the front and center speakers. The sound of the rear channel is output from the front (L and R) speakers.

- a) Front speaker (L)
- b) Center speaker (R)

1 2



1



2

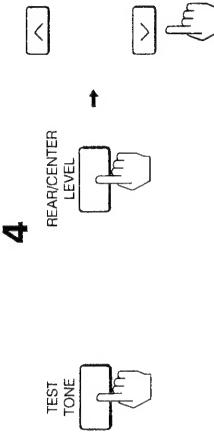


- 1 Press SURROUND MODE until the DOLBY SUR, THEATER 1, THEATER 2 or LIVE mode.
- 2 Press CENTER MODE to select the PHANTOM, NORMAL, WIDE or 3 CH LOGIC mode according to the speaker placement.
- 3 Press TEST TONE on the remote to set to on. (The button functions only in DOLBY SUR mode.)

For details of the speaker placement and the CENTER MODE setting, refer to page 54.

- 4 Adjust the volume level so that sound from each speaker will be the same level at your listening position.

4



Preparing for the Surround Sound

To enjoy the surround sound, adjust the level of each speaker and then try to obtain the "live" atmosphere using the digital signal processor (page 40). Before performing the following adjustments, you have to complete the speaker settings (page 54).

Adjusting Each Speaker Level

- for DOLBY SUR, THEATER 1, THEATER 2 or LIVE mode

- 1 Press SURROUND MODE until the DOLBY SUR, THEATER 1, THEATER 2 or LIVE indicator lights.
- 2 Press CENTER MODE to select the PHANTOM, NORMAL, WIDE or 3 CH LOGIC mode according to the speaker placement.

- 3 Press TEST TONE on the remote to set to on. (The button functions only in DOLBY SUR mode.)
- 4 Adjust the volume level so that sound from each speaker will be the same level at your listening position.

To adjust the level of center speaker
Press the REAR CENTER LEVEL button so that "CENTER" appears and press Δ or ∇ button to adjust the level.

The level of center and rear speakers can be adjusted from +10 dB to -50 dB and the adjusted level is displayed.

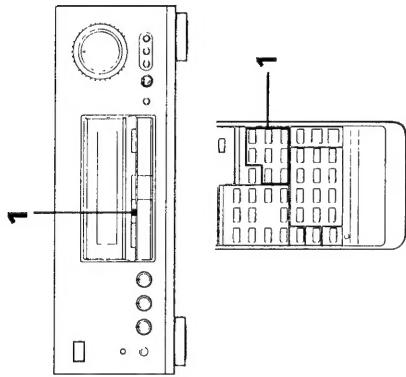
When adjusting MASTER VOLUME, all speakers are adjusted simultaneously.

Preparing for the Surround Sound

(continued)

Notes

- The speaker level adjustment with the test tone function can be performed only when the DOLBY SUR mode is selected.
- When the PHANTOM mode is selected, no sound is heard from the center speaker.
- When the 3 CH LOGIC is selected, no sound is heard from the rear speakers.
- When component (TV, power amplifier, etc.) to the AUDIO CENTER OUT jack, adjust with the volume control on the connected component as well.



Surround Effect with Digital Signal Processor

This amplifier uses digital signal processor to reproduce the surround sound effects. It allows you to obtain the sound field to best fit your listening environment.

Understanding the Digital Signal Processor

The digital signal processor electronically reproduces the acoustics of various listening environments. In addition to this function, you can use the center equalizer to finely adjust the tone.

Listening to the Sound with Preset Surround Mode

This amplifier comes with 8 preset surround modes. You can use these surround modes to simulate the sound you would experience in various listening environment. Since the DOLBY SUR, THEATER 1, THEATER 2 or LIVE surround uses the enhanced directivity circuit of the Dolby Pro Logic decoder, you can experience the surround effect such as in a movie theater. For each surround mode, you can adjust the sound parameters as desired. These are discussed in more detail on page 66 to 74.

- 1 Select the surround mode according to the program source.
- 2 Play the program source.

- for HALL, OPERA, JAZZ or STADIUM mode

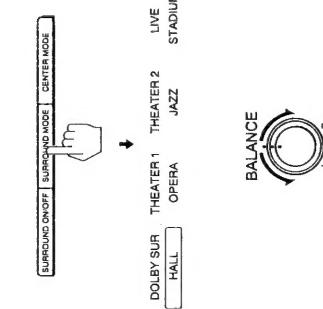
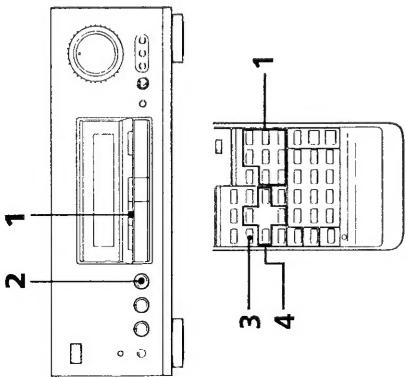
For HALL, OPERA, JAZZ or STADIUM mode, adjust the front and rear speakers level. (In these modes, the center speaker is not used.) You can adjust the level for each surround mode.

- 1 Press SURROUND MODE to select the surround mode you want to adjust and play a program source.
- 2 Turn BALANCE to adjust the volume level of the left and right front speakers will be the same level.

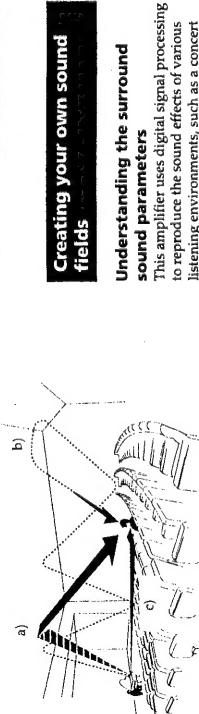
- 3 Adjust the level of rear speakers. Press the REAR CENTER LEVEL button so that "REAR" appears and press Δ or ∇ button to adjust the level. The level of rear speakers can be adjusted from +10 dB to -50 dB, and the adjusted level is displayed. You can refer to the adjusted level for Dolby surround with the test tone function.

Notes

- Some commercially available software may have Dolby surround processed sound tracks even though it does not carry the "DOLBY SURROUND" mark.
- When the software with the less rear signals is played back even though it has the "DOLBY SURROUND" mark, sound of the rear channel may be heard at very low level.
- In PHANTOM mode, sound from the center speaker cannot be heard.



Surround Effect with Digital Signal Processor



A

Creating your own sound fields

Understanding the surround sound parameters

This amplifier uses digital signal processing to reproduce the sound effects of various listening environments, such as a concert hall. Three sound elements contribute to this effect: direct sound, early reflection and reverberation (Fig. A: Types of sound).

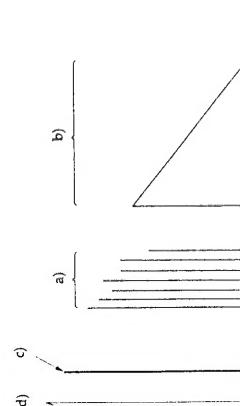
- a) Early reflections
- b) Reverberation
- c) Direct sound

The built-in digital signal processor creates various listening environments reproducing early reflected sound and reverberated sound. (Fig. B: Transition of sound)

- a) Early reflections
- b) Reverberation
- c) Direct sound
- d) Level
- e) Time

Note

Since this amplifier has 8 surround modes and each mode has various adjustable parameters, you can adjust them according to the type of your listening room.



B

Surround Effect with Digital Signal Processor

Characteristics of each surround mode

DOLBY SUR (surround)

This mode is for reproducing the movie or music program source recorded with Dolby surround system on which the DOLBY SUR or "DOLBY STEREO" mark is labeled. You can hear dynamic sound and natural voice just like listening to it in a movie theater or a concert hall.

THEATER 1

Applies reflected sound in a movie theater to the sound output through the enhanced directivity circuit of the Dolby Pro Logic decoder. Suitable for movie programs recorded with Dolby surround system.

THEATER 2

Applies the acoustics of a small-size movie theater using the sound output through the enhanced directivity circuit of the Dolby Pro Logic decoder.

LIVE

Applies reflected sound in a concert hall to the sound output through the enhanced directivity circuit of the Dolby Pro Logic decoder.

HALL

Suitable for music programs recorded with Dolby surround system.

OPERA

Applies reflected sound in a concert hall to the sound output through the enhanced directivity circuit of the Dolby Pro Logic decoder.

JAZZ

Gives a "live" atmosphere similar to a jazz club and reproduces crisp sound.

STADIUM

Reproduces the acoustics of an open-air stadium having a long early reflected sound. Suitable for a live concert of pops.

Surround Effect with Digital Signal Processor

Adjusting the Digital Surround

For each surround mode, you can adjust the sound parameters as described in the following chart.

YES: You can adjust this parameter.
-: You cannot adjust this parameter.

SURROUND MODE	PARAMETER	THEATER 1
PARAMETER	ROOM	-
WALL	-	YES
SEAT	-	YES
EFFECT	-	YES
REV.	-	YES
DELAY	YES	-

SURROUND MODE	PARAMETER	THEATER 2	LIVE	HALL
PARAMETER	ROOM	YES	YES	YES
WALL	YES	YES	YES	YES
SEAT	YES	YES	YES	YES
EFFECT	YES	YES	YES	YES
REV.	YES	YES	YES	YES
DELAY	-	-	-	-

SURROUND MODE	PARAMETER	OPERA	JAZZ	STADIUM
PARAMETER	ROOM	YES	YES	YES
WALL	YES	YES	YES	YES
SEAT	YES	YES	YES	YES
EFFECT	YES	YES	YES	YES
REV.	YES	YES	YES	YES
DELAY	-	-	-	-

In addition to these adjustments, you can adjust the center equalizer (page 76) and the level of center and rear speakers (pages 56-58).

Surround Effect with Digital Signal Processor

Adjusting Surround Parameters

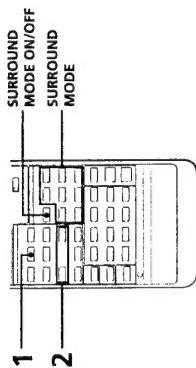
This operation can be performed only with the remote.

Before adjusting parameters, play a program source with the surround mode suitable for the program source. You can adjust parameters listening to the sound with surround effect. In addition, you can compare the adjusted sound with the sound having no surround effect by switching the SURROUND ON/OFF button.

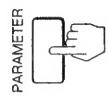
1 Press PARAMETER repeatedly until the desired parameter appears on the display.

2 Press Δ or ∇ to adjust the parameter.

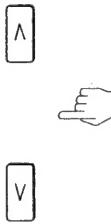
Note
In 3 CH LOGIC mode, you cannot adjust the parameter.



1



1



2

Surround Effect with Digital Signal Processor

Characteristics of each parameter

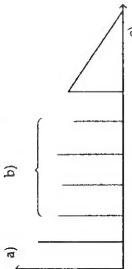
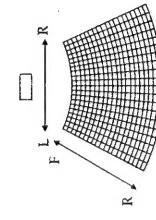
Room Size Simulation (ROOM) A

Before sound reaches our ears, it is reflected many times between the left and right walls, ceiling, and floor. In a large room, sound takes more time to bounce from one surface to another than in a smaller room. The ROOM parameter controls the spacing of early reflections to simulate the room size. The S indicator on the display signifies a small room, the L indicator signifies a large room, and the middle point designates a standard room size.

1) Small room

- a) Level
- b) Early reflections
- c) Time

A

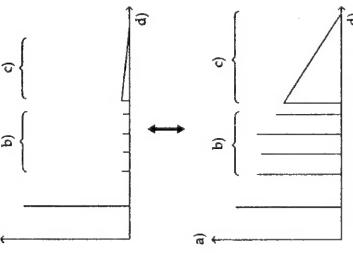


B

1) Large room

- a) Level
- b) Early reflections
- c) Time

B

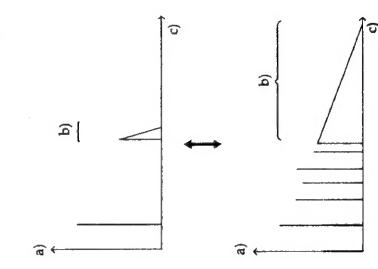


C

2) Large room

- a) Level
- b) Early reflections
- c) Reverb
- d) Frequency
- e) Low
- f) High
- g) Early reflections and reverberation

C



Surround Effect with Digital Signal Processor

Seat Position Simulation (SEAT) A

If you sit in the front of a room, you hear more direct sound from the front speakers. As you move to the rear, the reflected sound from the front speakers increases. Similarly, the reflected sound changes if you move from left to right, and vice versa. The F/R and L/R parameters control the balance of the direct and reflected sound and other elements of sound to simulate your listening position.

When adjusting the F/R parameter, the F indicator on the display signifies the front position of the room. The R indicator signifies the rear position, the middle point of the indicator designates the center position. When adjusting the L/R parameter, the L indicator signifies the left position of the room. The R indicator signifies the right position. The middle point of the indicator designates the center position.

1) STADIUM mode

2) Other modes

Effect Level (EFFECT) B

Effect level is the combination of the level of early reflections and reverberation. The L indicator on the display signifies the lowest level and the H indicator signifies the highest level. The adjustable level is divided into 21 segments. As you select higher level, the room becomes more "live." As you select lower level, the room becomes more "dead."

1) Low effect level

- a) Level
- b) Early reflections
- c) Reverb
- d) Time

2) High effect level

- a) Level
- b) Early reflections
- c) Reverb
- d) Time

Reverberation Time (REV.) C

This parameter adjusts the length of the reverberation. The S indicator on the display signifies the shortest reverberation time, the L indicator signifies the longest reverberation time.

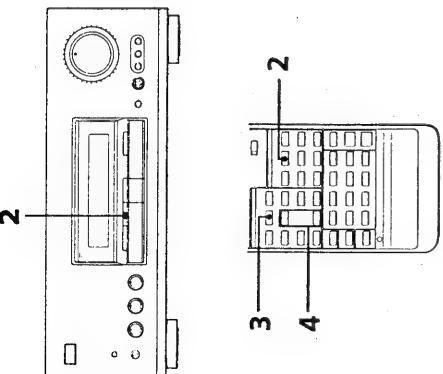
1) Shortest reverberation time

- a) Level
- b) Reverberation
- c) Time

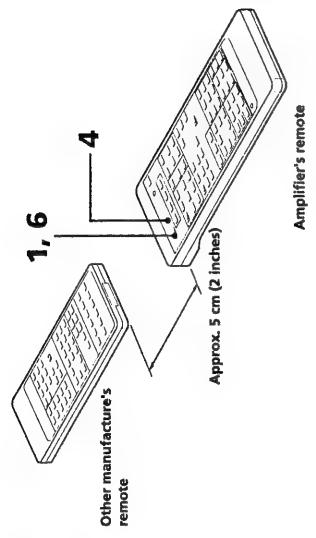
2) Longest reverberation time

- a) Level
- b) Reverberation
- c) Time

Surround Effect with Digital Signal Processor



Storing Other Manufacturer's Operating Codes on the Remote

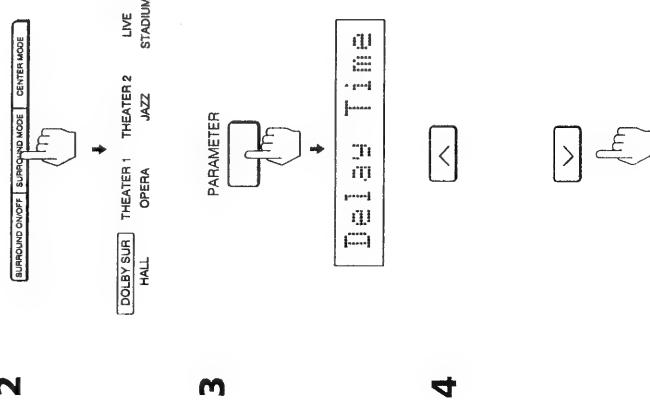


Adjusting the Delay Time of the Rear Speakers

Sound from the front and rear speakers is not output simultaneously. By adjusting the time difference between front and rear speakers (delay time), you can make the surround sound best fit your listening environment. You can make the delay time longer or shorter within the range of 15 ms to 30 ms.

- 1 Play a program source.
- 2 Press SURROUND MODE repeatedly until "Delay Time" appears on the display.
- 3 Press PARAMETER repeatedly until "Delay Time" appears on the display.
- 4 Press Δ or ∇ to adjust the level.

Note
In 3 CH LOGIC mode, you cannot adjust the level and delay time of rear speakers. Only for program sources recorded with Dolby surround, this adjustment has effect.



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Storing Other Manufacturer's Operating Codes on the Remote

The remote RM-P790 learns various functions of other remote commanders emitting infrared rays and allows you to control most of audio and video component from a distance.

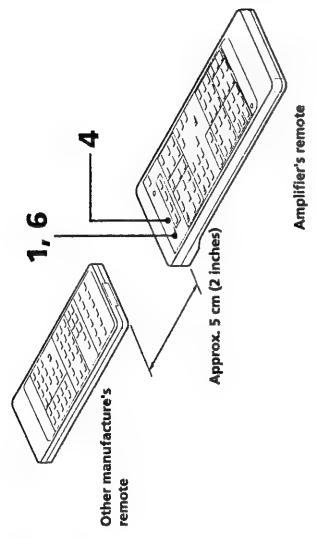
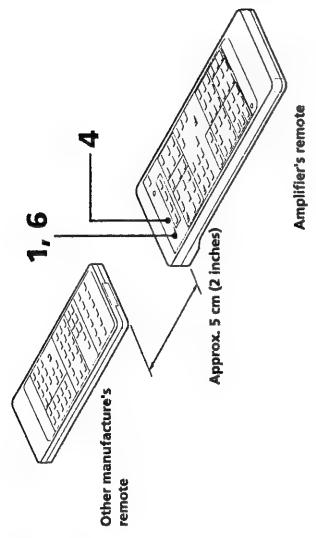
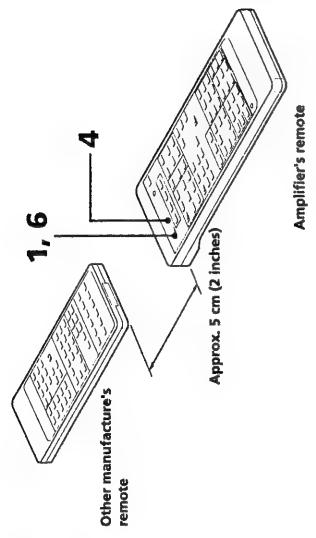
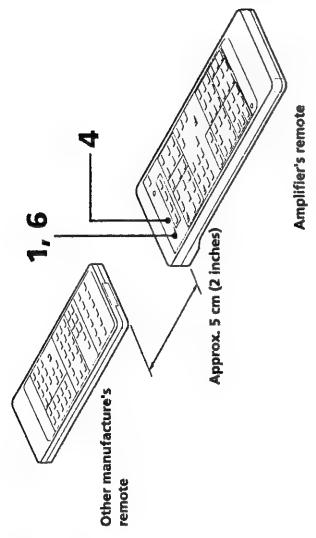
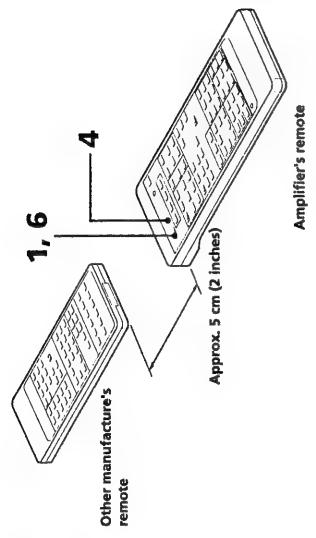
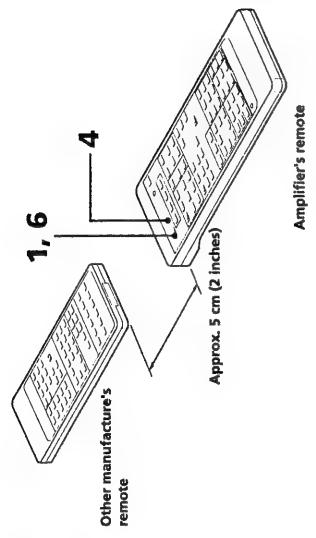
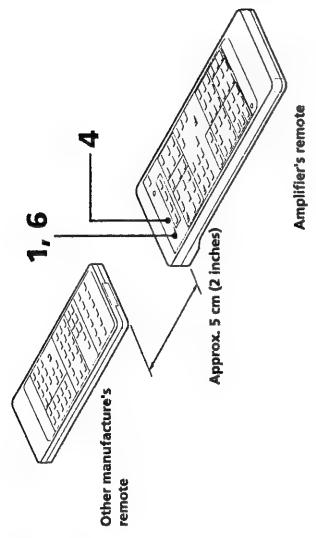
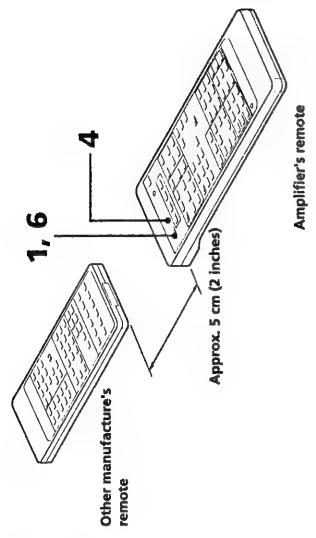
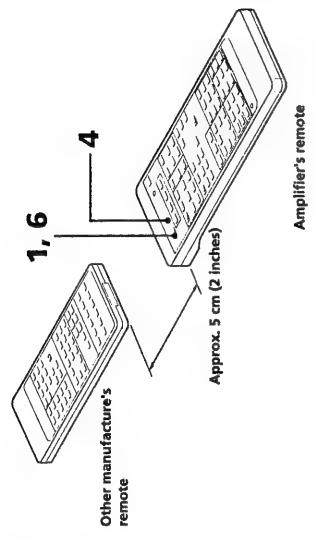
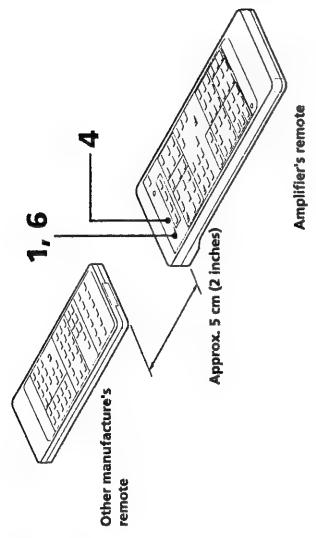
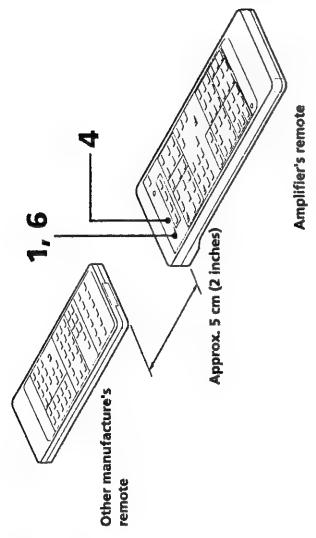
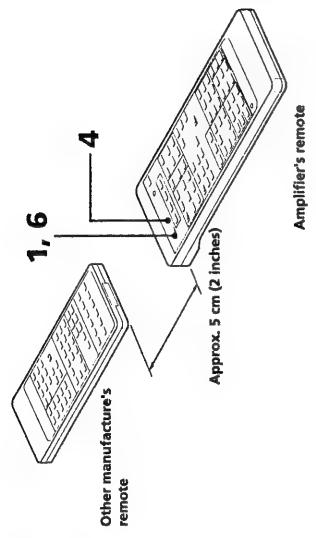
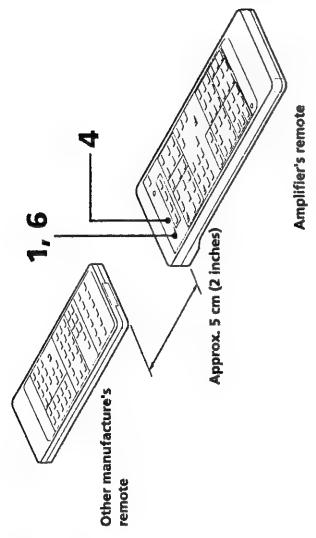
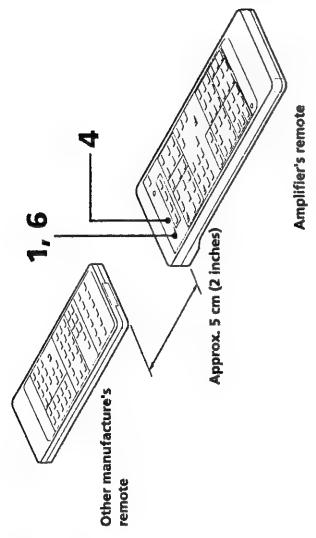
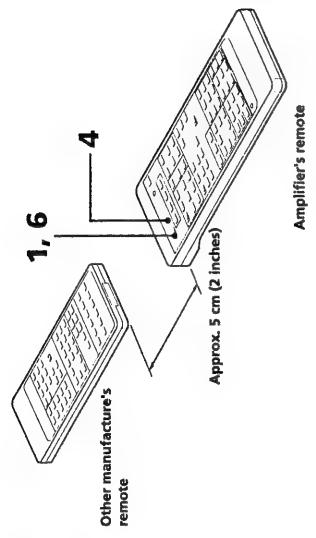
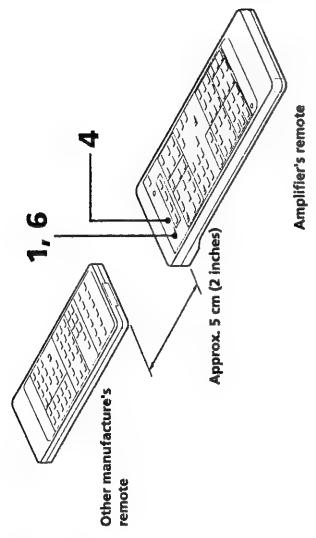
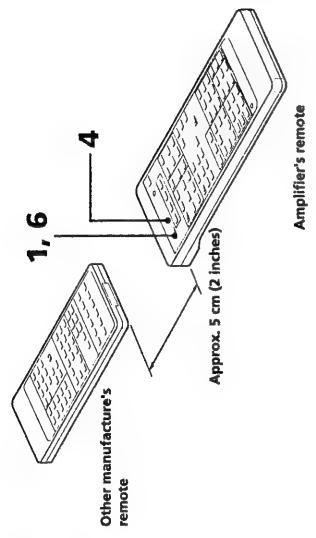
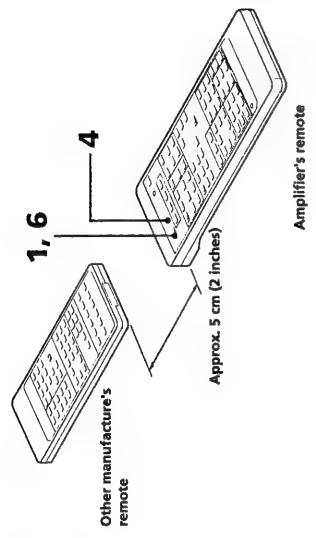
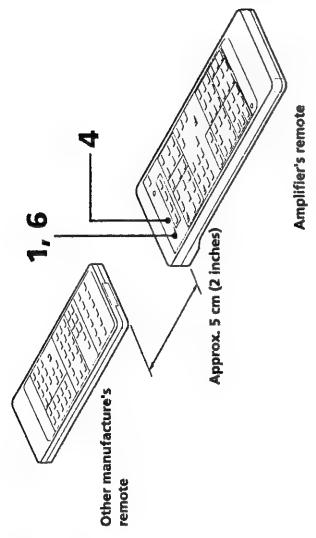
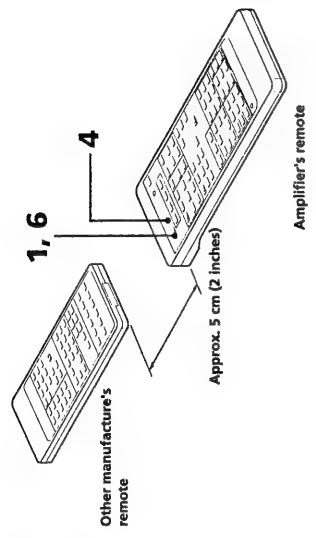
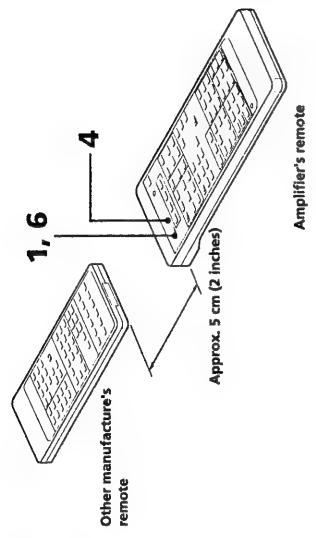
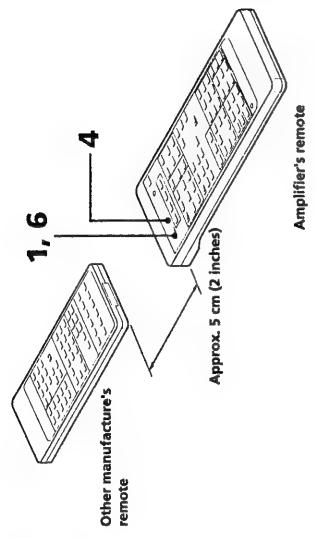
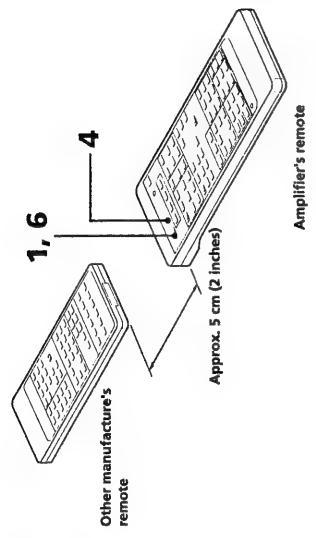
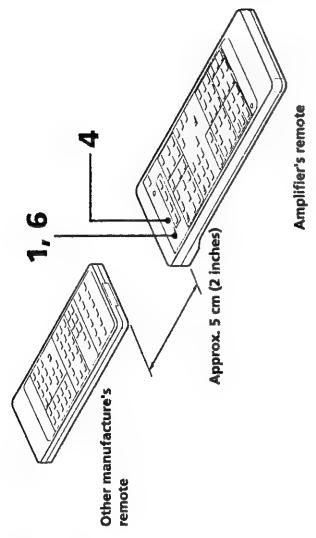
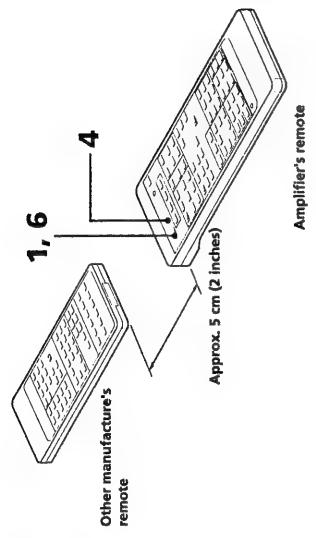
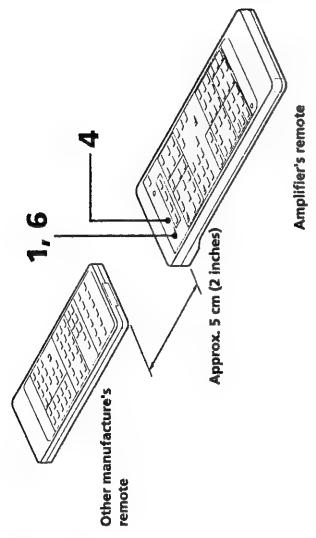
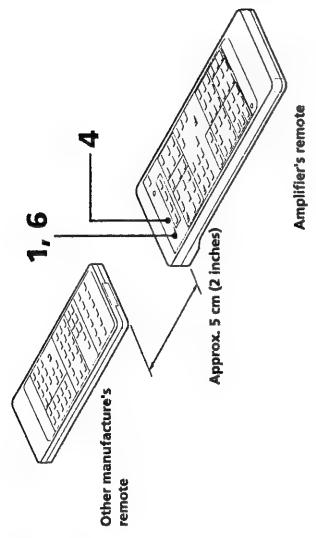
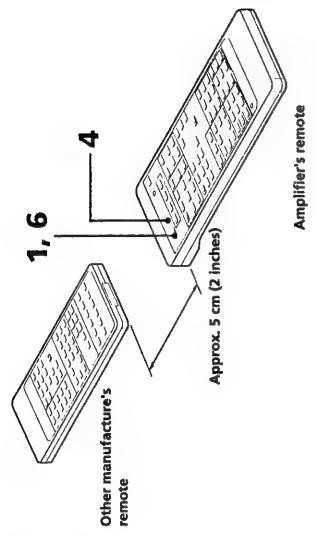
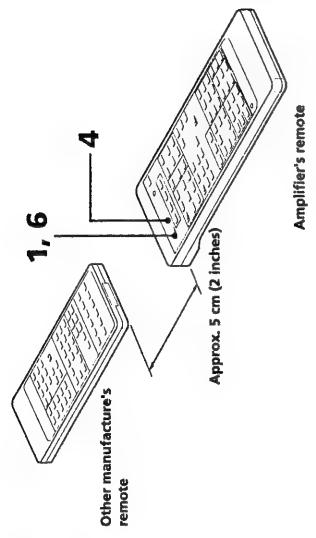
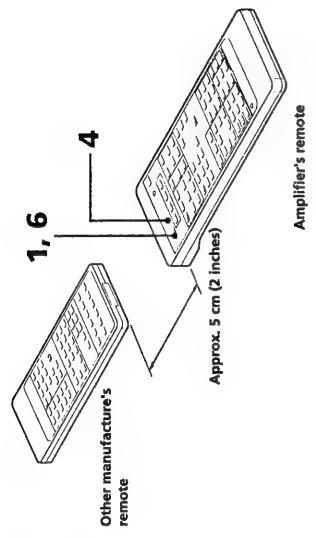
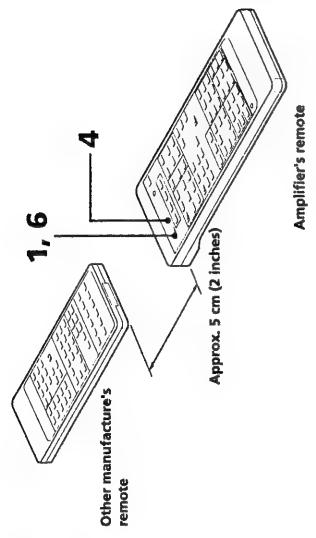
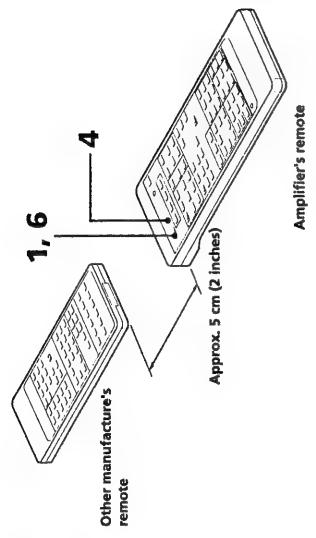
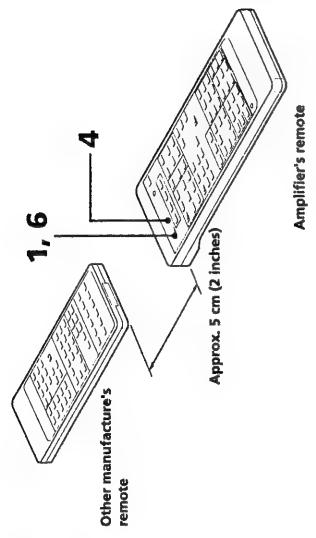
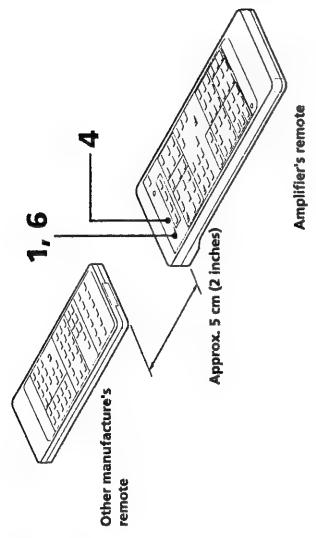
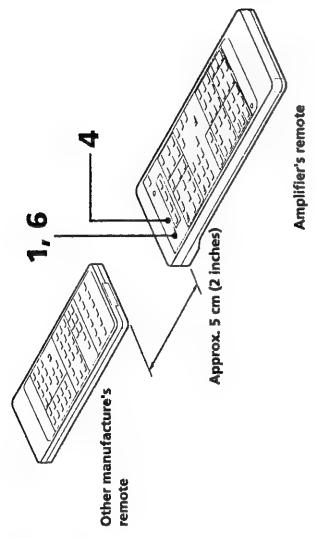
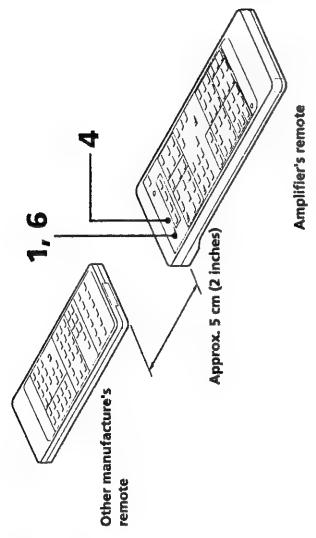
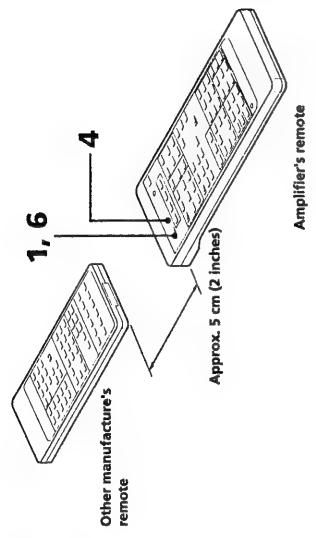
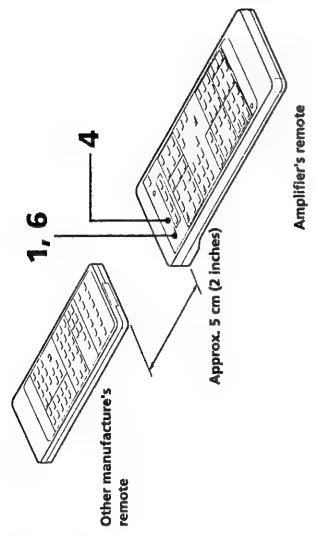
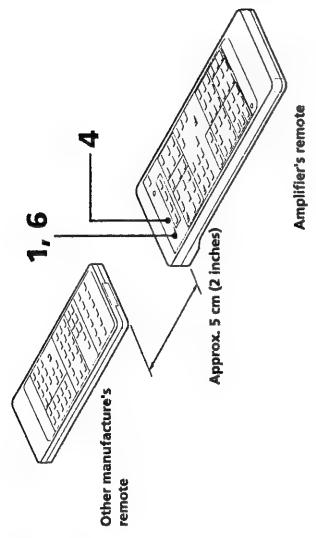
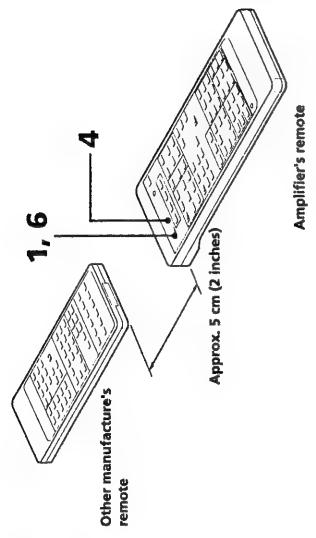
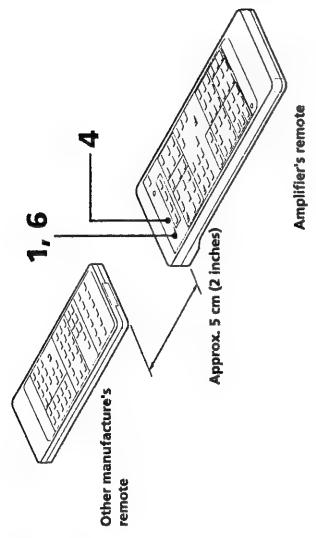
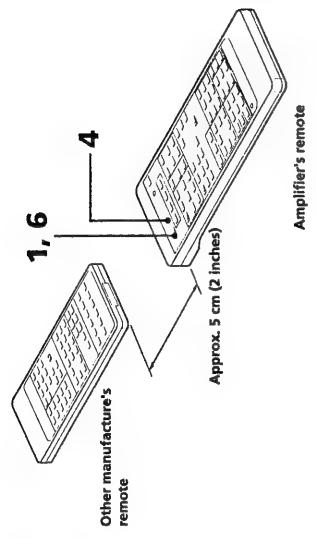
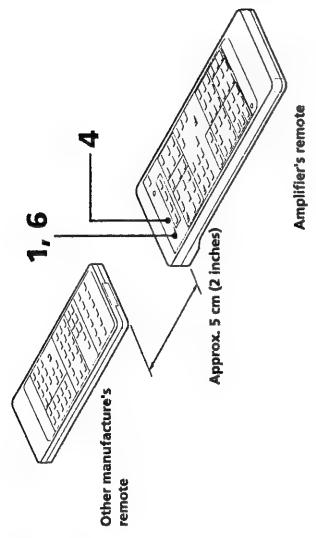
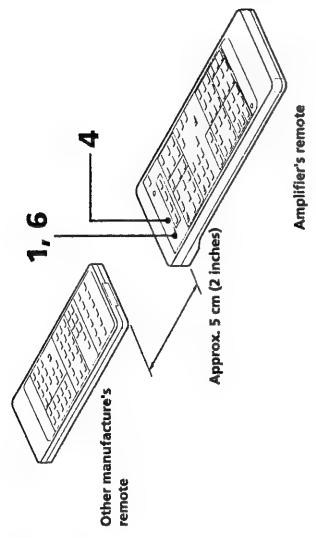
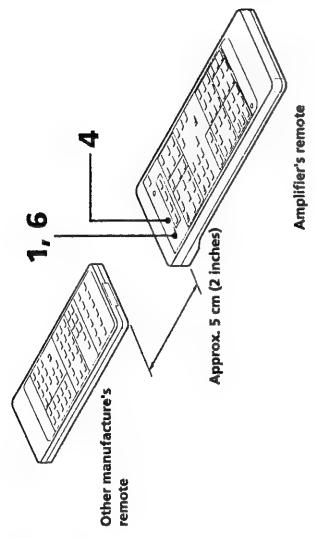
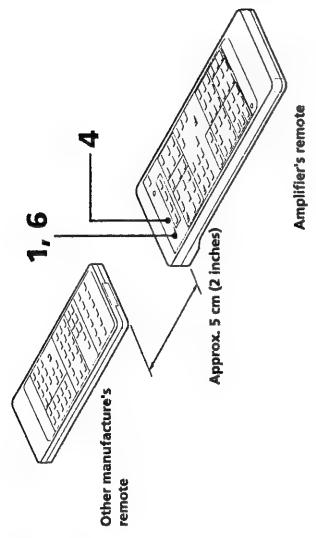
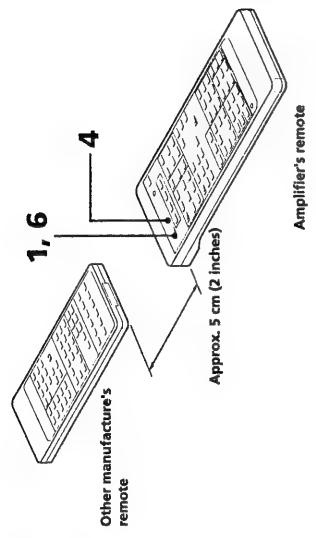
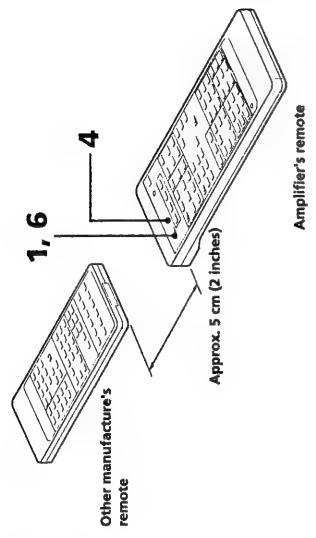
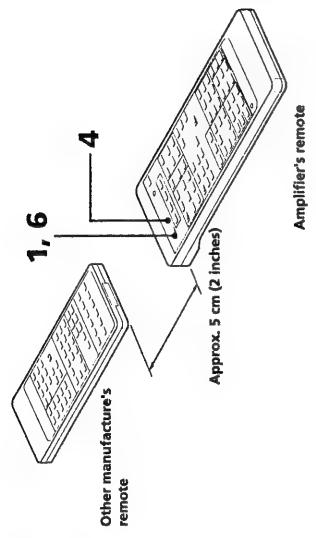
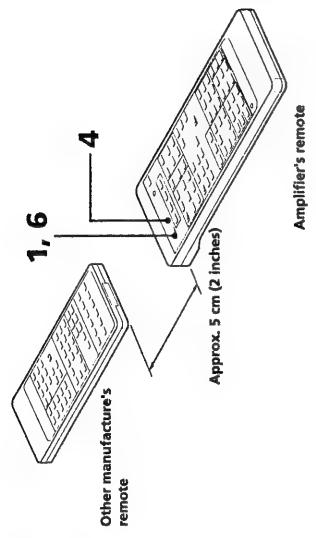
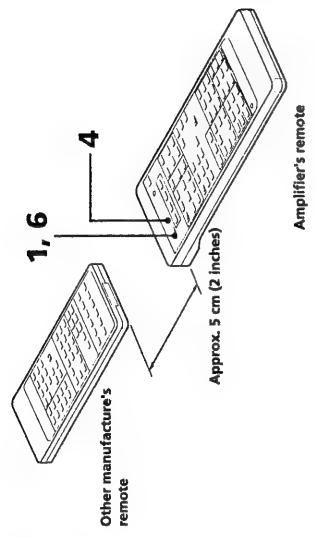
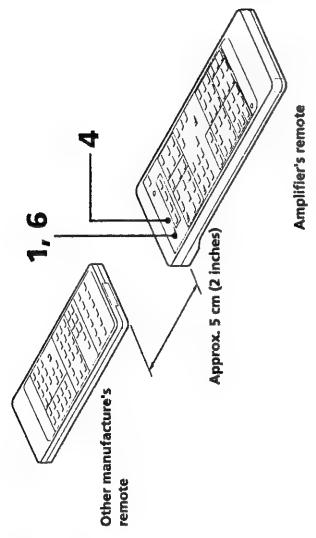
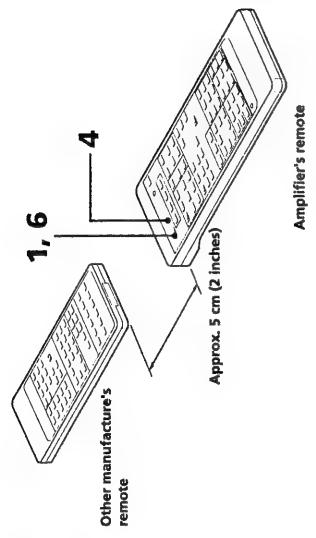
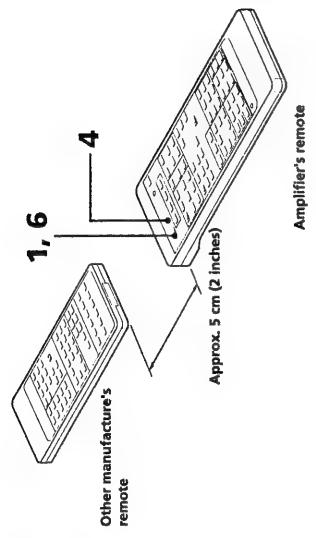
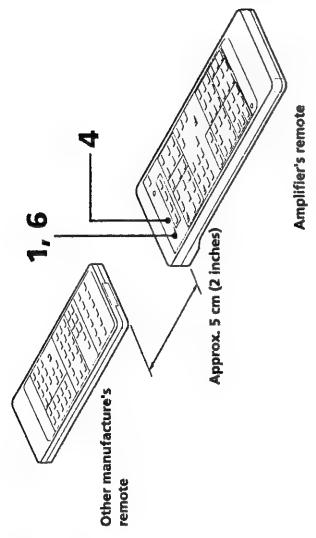
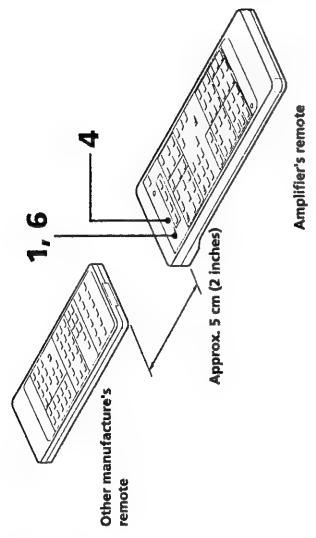
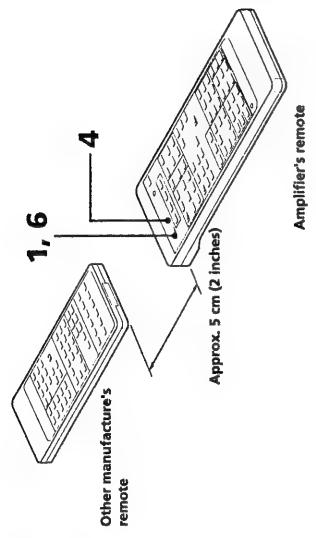
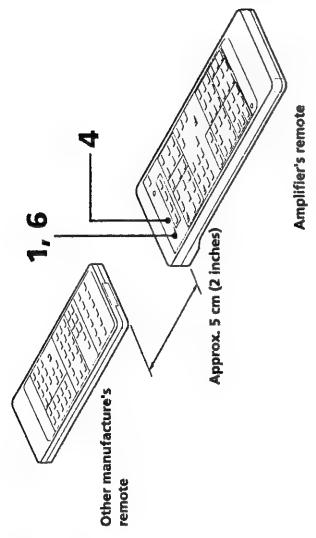
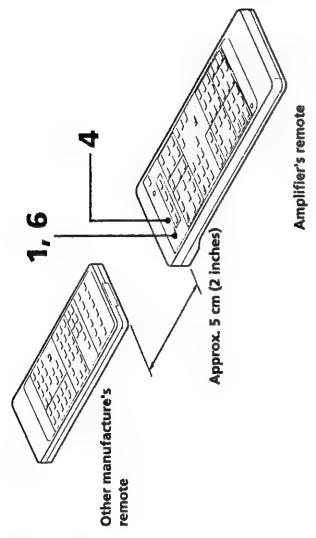
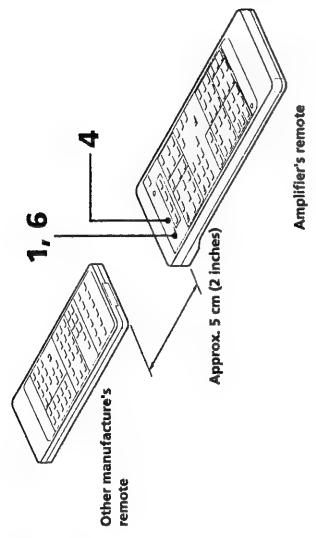
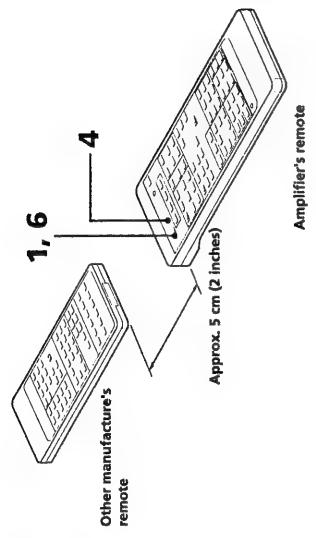
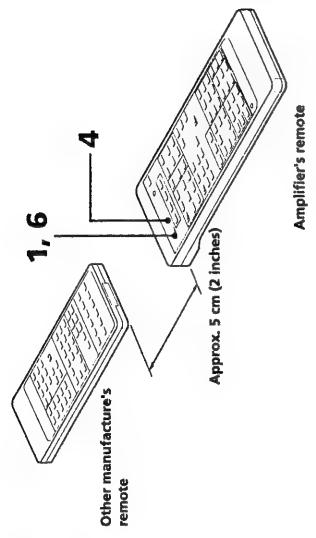
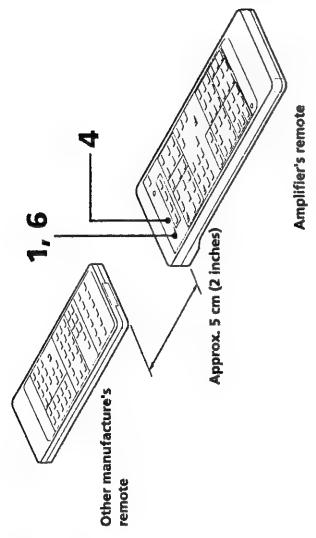
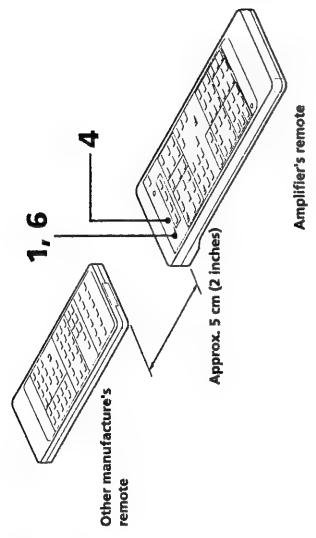
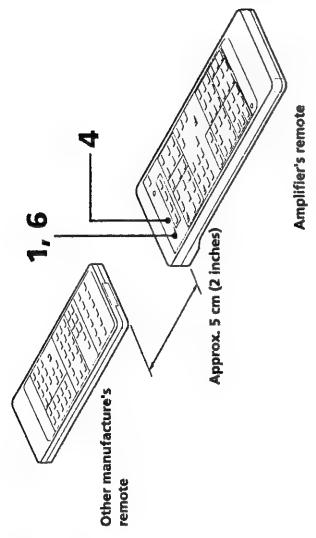
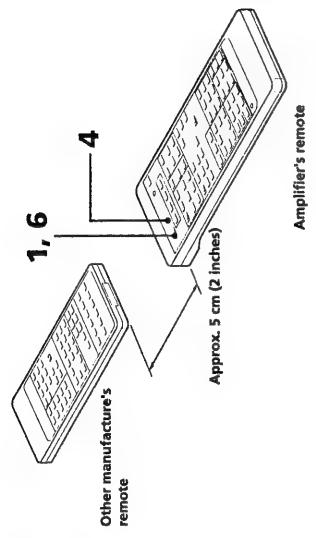
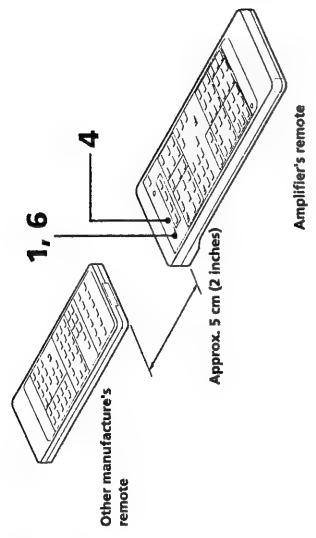
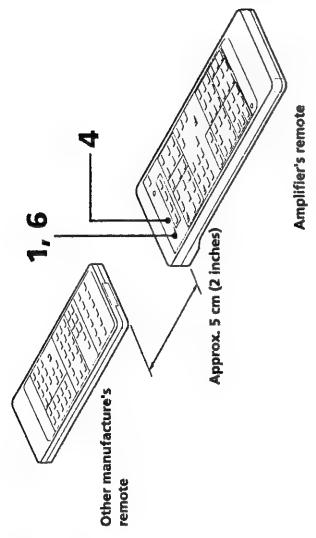
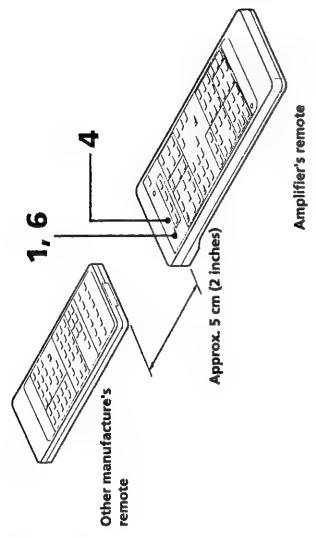
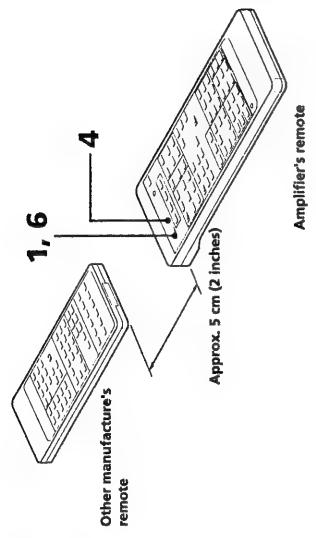
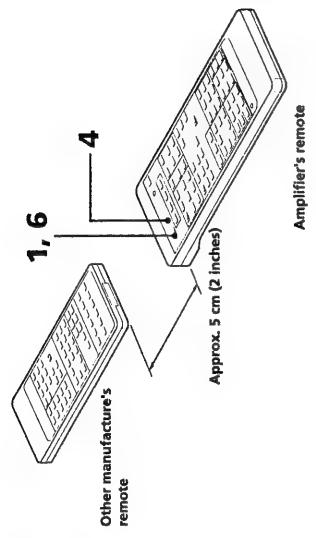
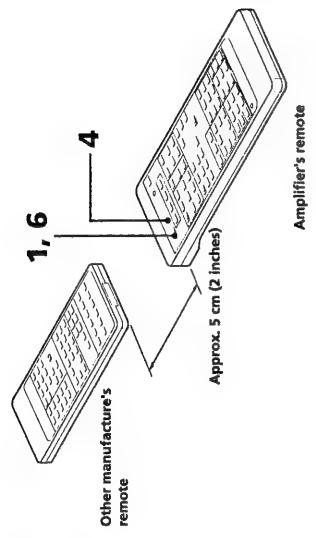
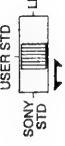
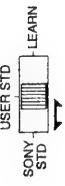
Programming Signals of Other Audio/Video Component

When you manipulate a switch or button on the commander, be sure to point the head of the remote toward the remote control sensor on the front of this unit. If there is an obstacle between the unit and the head of the remote, the unit may not be controlled remotely.

The two remote commanders must:

- face straight each other.
- be placed at a distance of approx. 5 cm (2 inches).
- not be moved during programming operation.

- 1 Set the mode selector to LEARN.
- 2 Hold down the button on the remote commander supplied with this amplifier, which shall learn the remote control signal. The LEARN indicator lights up.
- 3 Hold down the button of other manufacturer's remote whose signal is to be learned.
- 4 Remove your fingers from the buttons after the LEARN indicator goes off.
- 5 Repeat operation for each button to be programmed.
- 6 After programming, set the mode selector to USER STD or SONY STD.



Storing Other Manufacturer's Operating Codes on the Remote

After programming

Be sure to test if the equipment really works with the programmed signals.

Number of signals that the commander can learn

It depends on the format of the signal. If you program signals of Sony component, approximately 60 signals can be programmed.

Programmable area

A In this area, you can store signals in a button with each setting of the CDP/LDP selector.

b In this area, you can store signals in a button with each setting of the DECK/VTR selector and DECK type/VTR type selector. (When the DECK/VTR selector is set to DECK, you cannot program the DUAL, TV/VTR and CH +/- buttons.)

If the LEARN indicator flashes

The memory capacity is full as other strong signals have been stored. In this case, clear all stored signals following the procedure described in "To clear all programmed signals" and program again from the beginning.

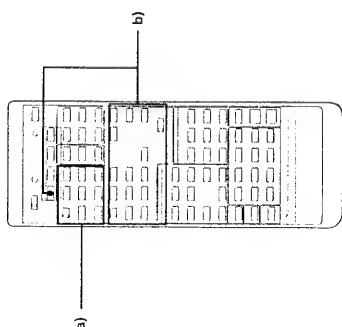
When programming, avoid the following conditions not to store undesirable signals.

- Exposing the remotes to intense light such as of inverter fluorescent lamp.
- Receiving infrared signals of other appliance's remote
- Placing the remotes too far apart from each other.

Notes on programming

- Remote-control signals of component of manufacturers other than Sony can be programmed only when they are compatible with the infrared wireless remote control system. Since the programmable remote can "team" only the signals output from another remote, it cannot control component that does not use a remote commander.
- Do not attempt to use the programmable remote with an air conditioner or other household appliances.
- Note that there are some special remote-control signals that cannot be programmed.

A



Storing Other Manufacturer's Operating Codes on the Remote

Programming a new signal onto a previously programmed button

Follow the programming procedures.

The previously programmed signal is cleared and replaced by the new signal.

To clear all programmed signals

A Set the mode selector to LEARN.

1 Press and hold any button of the programmable area until the LEARN indicator lights up.

- 2 Press and hold any button of the programmable area until the LEARN indicator lights up.
- 3 Press PROGRAM/CLEAR with a ball-point pen, etc. until the LEARN indicator flashes and goes off.

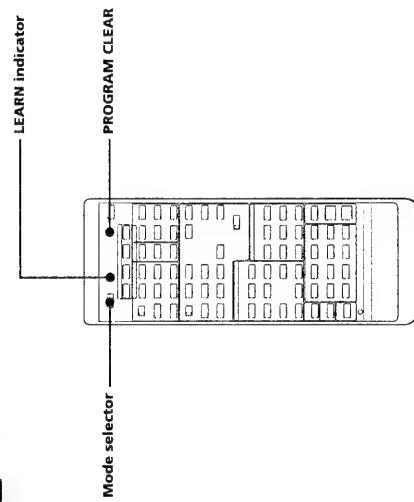
Note

It is not possible to clear the programmed content of just one button.

To program a signal onto the REC button

Press the following buttons on other remotes

- On a tape deck's remote: ●, ○ and ▲, or ● and ▾
- On a DAT deck's remote: ●, ○ and ▲
- On a MD recorder's remote: ●
- On a VCR's remote: ● and ▲



A

SECTION 2

TEST MODE

The test mode is provided in the TA-AV790ESD and FL indicator can be checked. Please check FL indicator if its indication is suspicious.

- **How to operate the test mode**

On the power off, holding to press **VIDEO SELECT**, **MIX** and **AUDIO SELECT** buttons at the triple same time, and turn the **POWER** switch on, so that FL indicator is lit in full.

On the test mode, after **VIDEO SELECT** button is pressed successively, the indication is changed one after another.

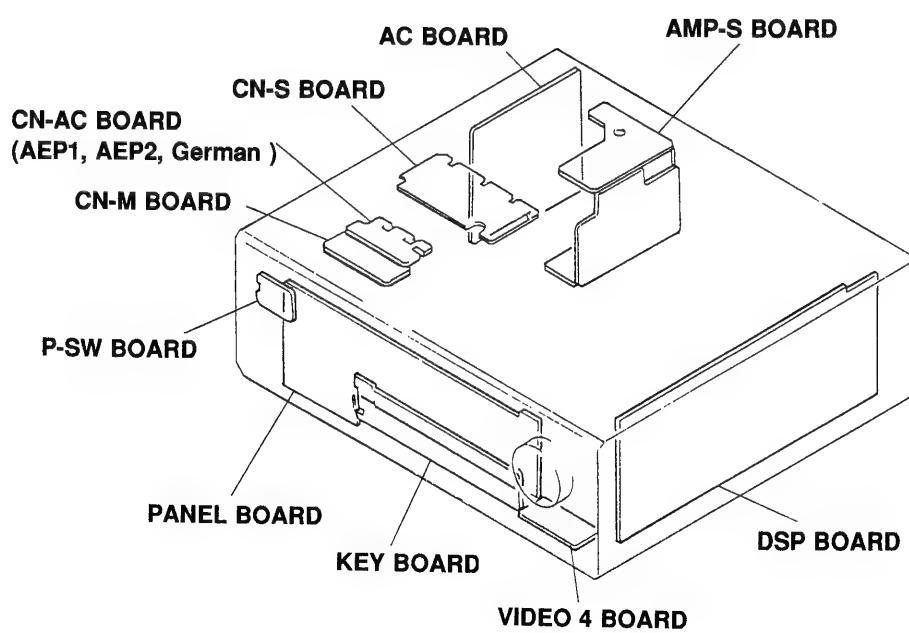
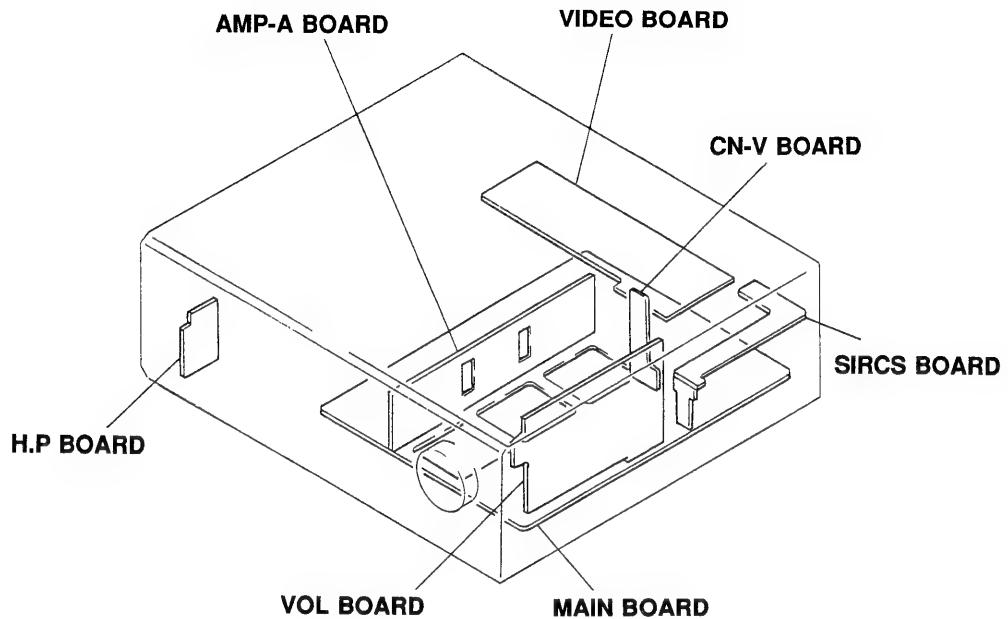
On the test mode, after **MIX** button is pressed, **REC SD PRO SM SOF** is indicated. Then its fit button is pressed, the indication goes out.

- **How to escape from the test mode**

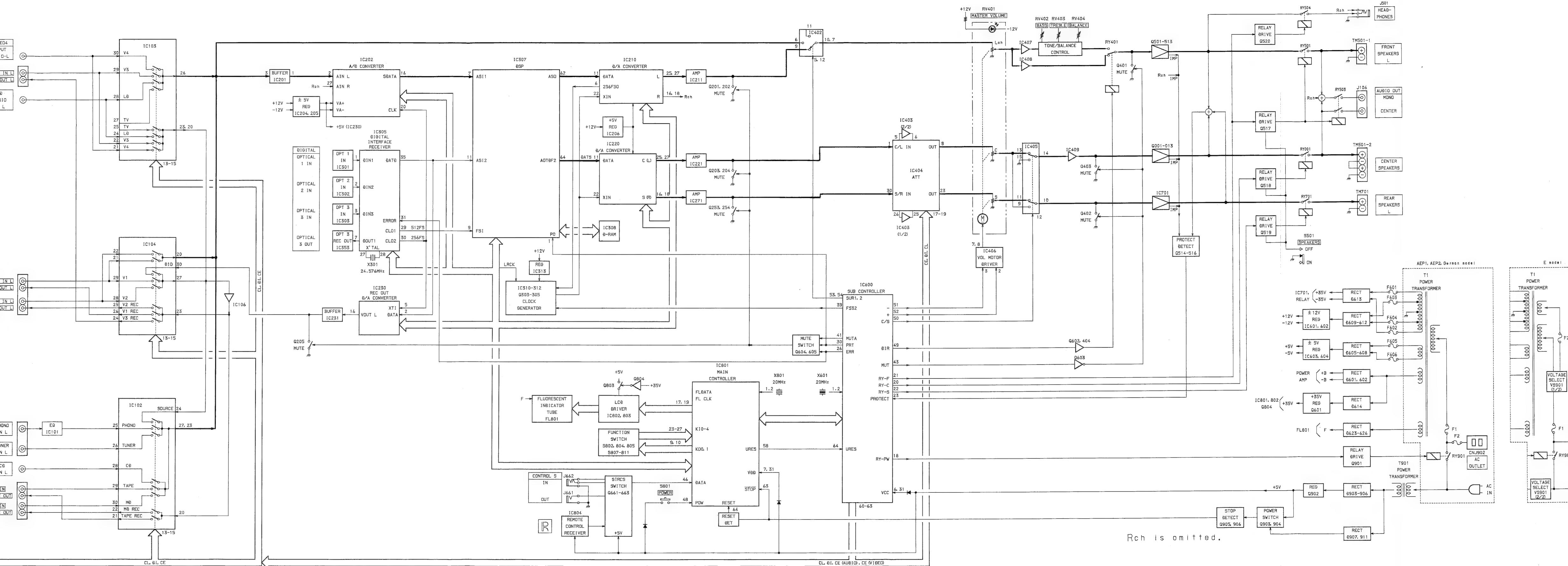
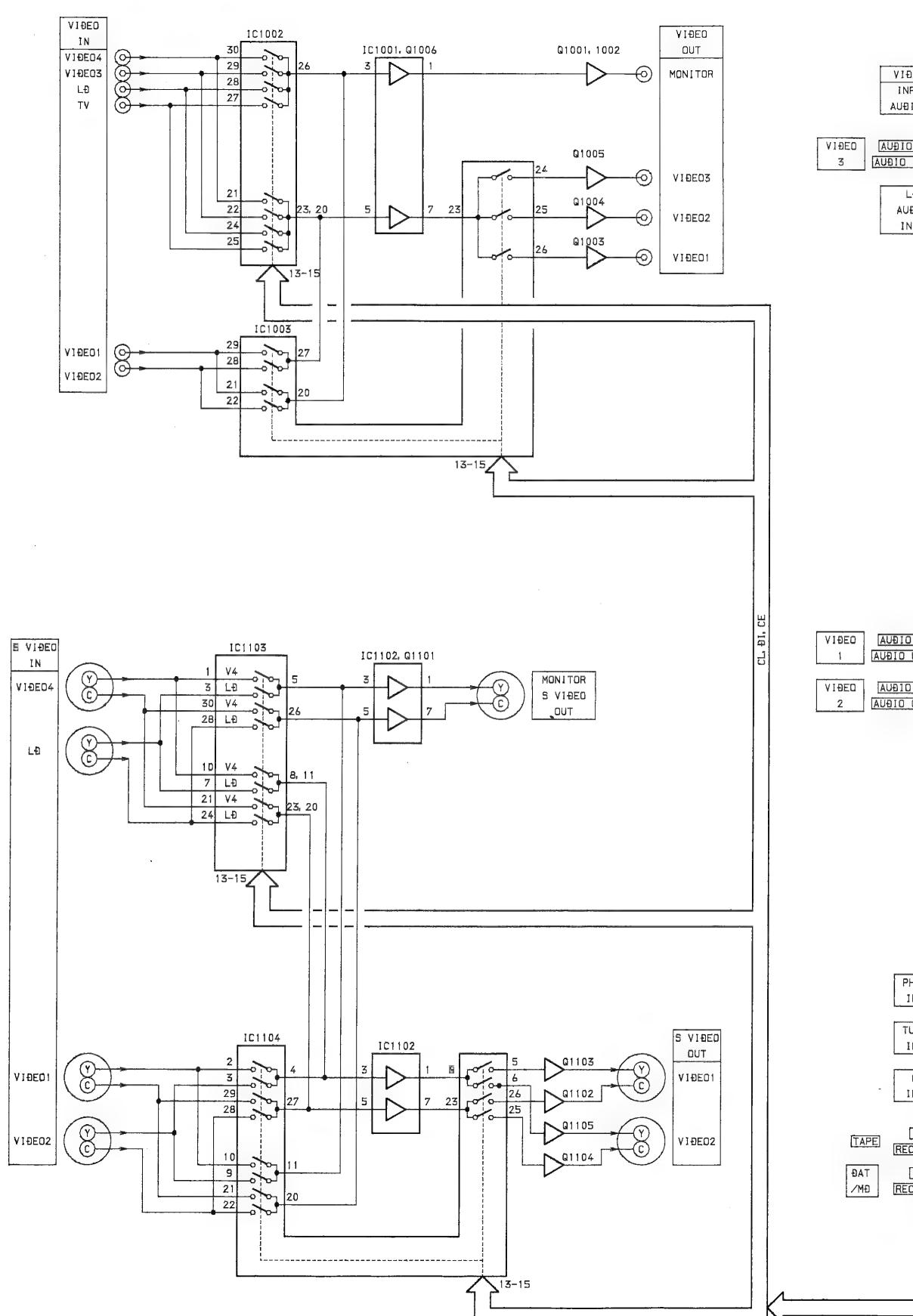
Turn the power switch off and the test mode will release.

SECTION 3 DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION

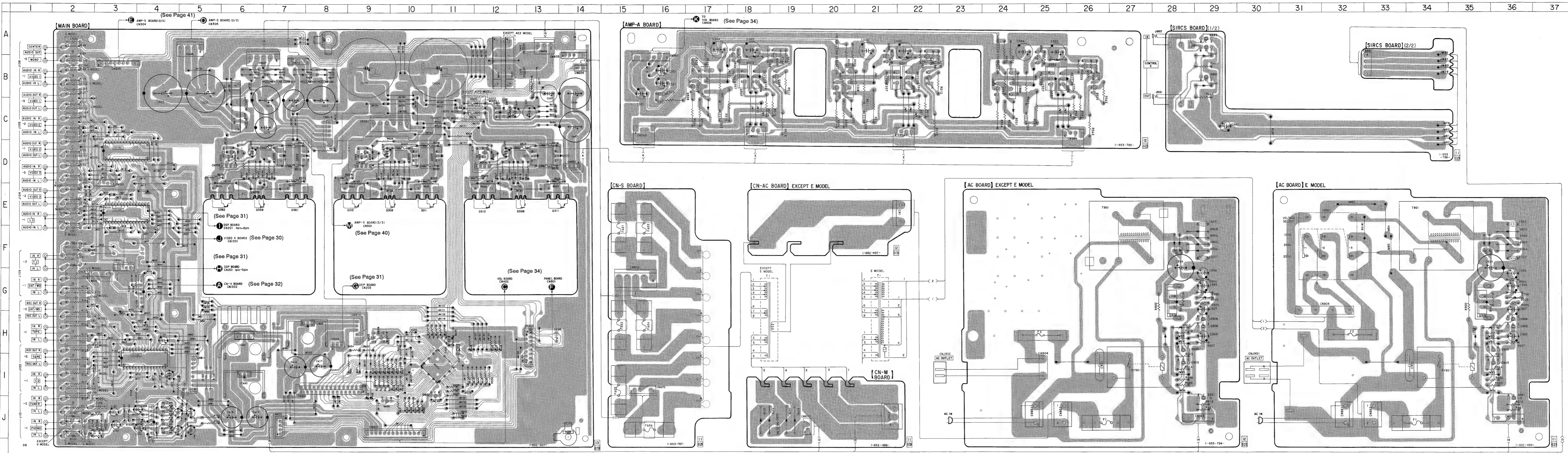


3-2. BLOCK DIAGRAM

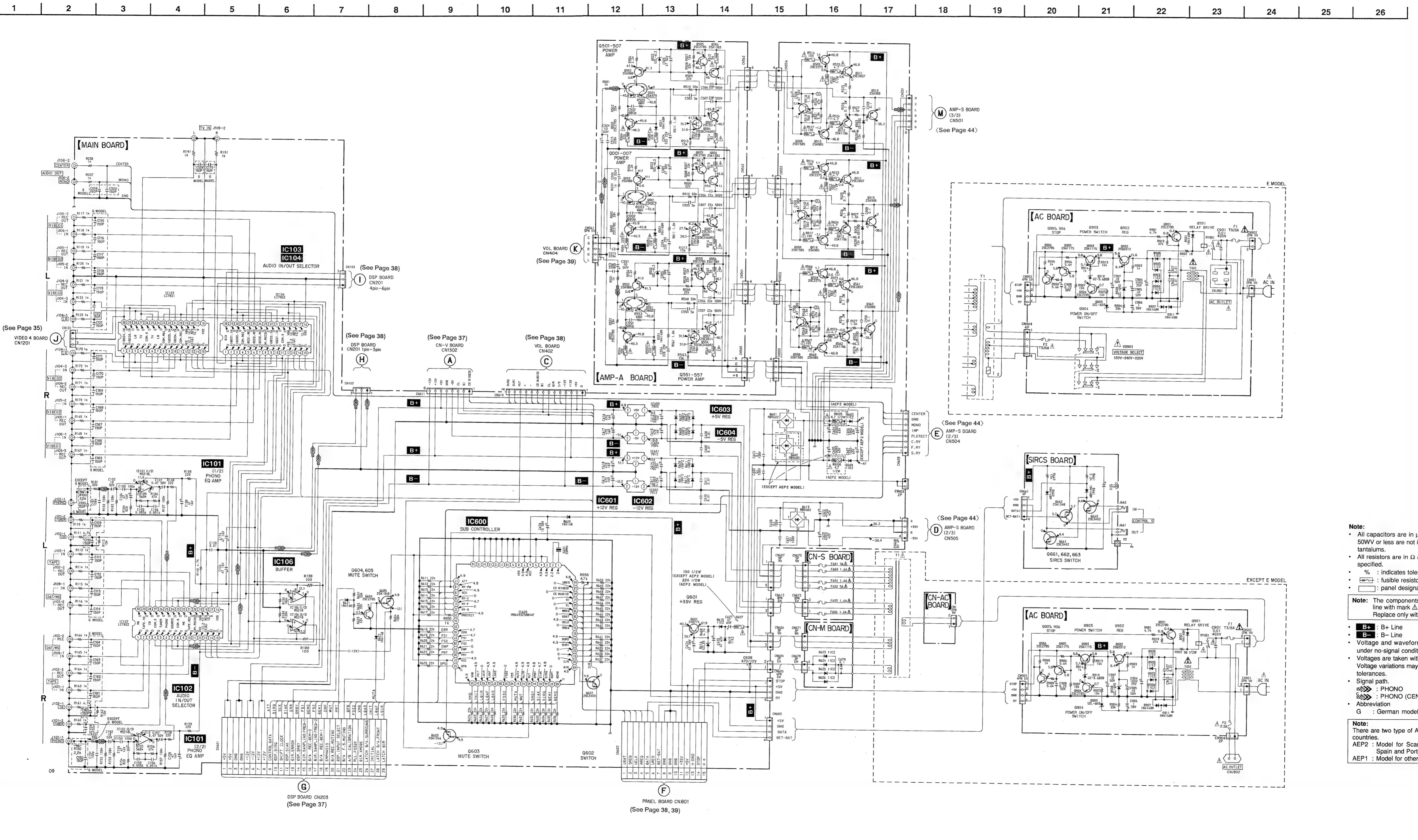


3-3. PRINTED WIRING BOARDS — MAIN SECTION —

- See page 14 for Circuit Boards Location.
- See page 49 for Semiconductor Lead Layouts.



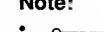
3-4. SCHEMATIC DIAGRAM — MAIN SECTION —
 • See page 45 for IC Block Diagrams.
 • See page 55 for IC Pin Functions. (IC600)



3-5. PRINTED WIRING BOARDS — VIDEO SECTION —
 • See page 14 for Circuit Boards Location.
 • See page 49 for Semiconductor Lead Layouts.

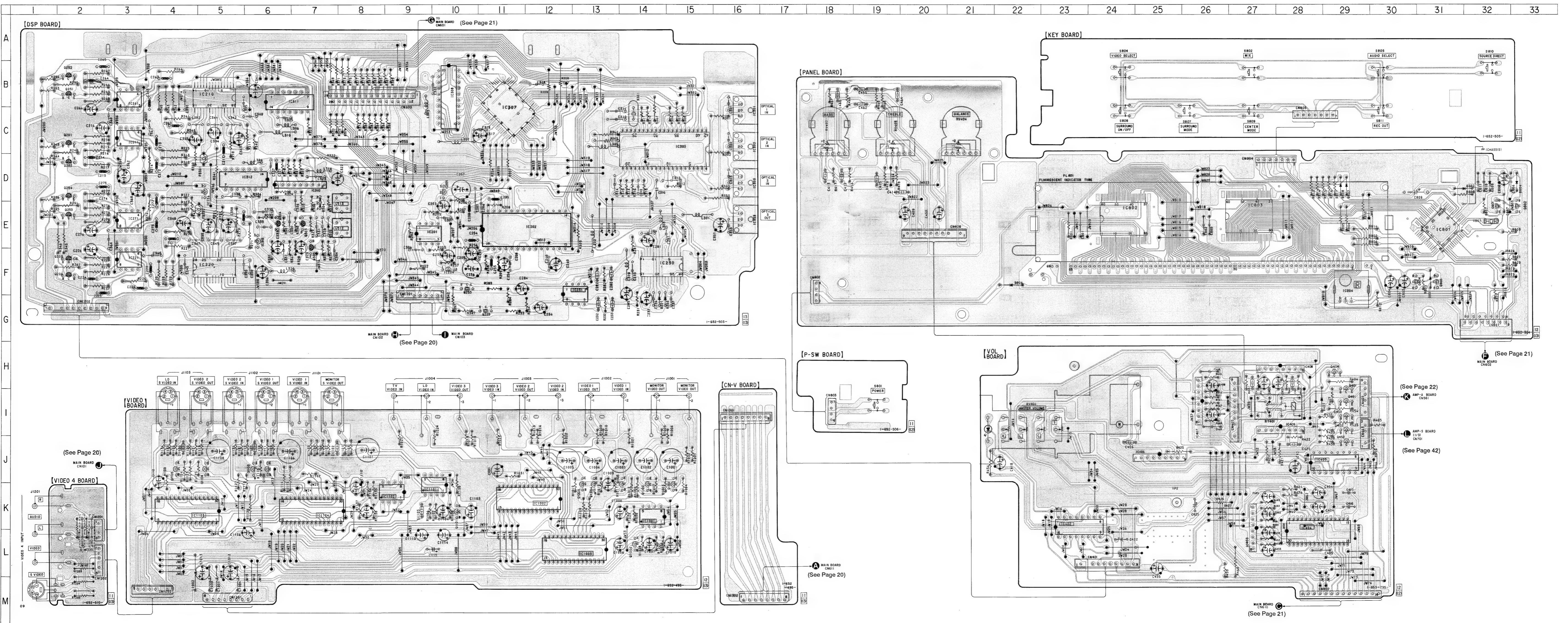
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D301	G-14	IC802	E-24
D302	G-15	IC803	E-27
D304	E-7	IC804	F-29
D305	E-7	IC1001	K-14
D401	I-29	IC1002	K-14
D401	F-31	IC1003	L-19
D802	D-31	IC1101	J-10
D803	D-32	IC1102	K-9
D804	D-33	IC1103	K-4
D806	F-22	IC1104	K-7
D807	D-29		
D808	D-29		
IC201	E-9	Q201	C-2
IC202	E-11	Q202	D-2
C204	F-10	Q204	F-2
C205	D-10	Q205	G-11
IC206	D-5	Q206	B-2
IC211	B-5	Q207	E-2
IC220	C-3	Q208	D-2
IC221	F-5	Q209	F-10
IC230	F-14	Q204	E-6
IC231	F-12	Q205	F-7
IC261	B-3	Q305	I-29
IC271	E-3	Q401	I-29
IC301	E-3	Q402	I-29
IC302	E-3	Q403	I-29
IC303	E-4	Q404	H-29
IC305	C-15	Q451	I-29
IC307	C-11	Q501	J-29
IC309	D-10	Q502	E-32
IC310	D-7	Q503	F-31
IC311	B-6	Q504	F-31
IC312	D-5	Q1001	K-15
IC313	E-6	Q1002	K-14
IC352	E-10	Q1003	K-14
IC402	K-23	Q1004	K-13
IC403	K-27	Q1005	K-13
IC404	L-28	Q1006	L-14
IC406	J-29	Q1007	K-10
IC407	J-25	Q1002	J-6
IC408	I-26	Q1003	J-6
IC408	H-28	Q1004	J-5
IC409	I-28	Q1005	J-4
IC801	E-31		

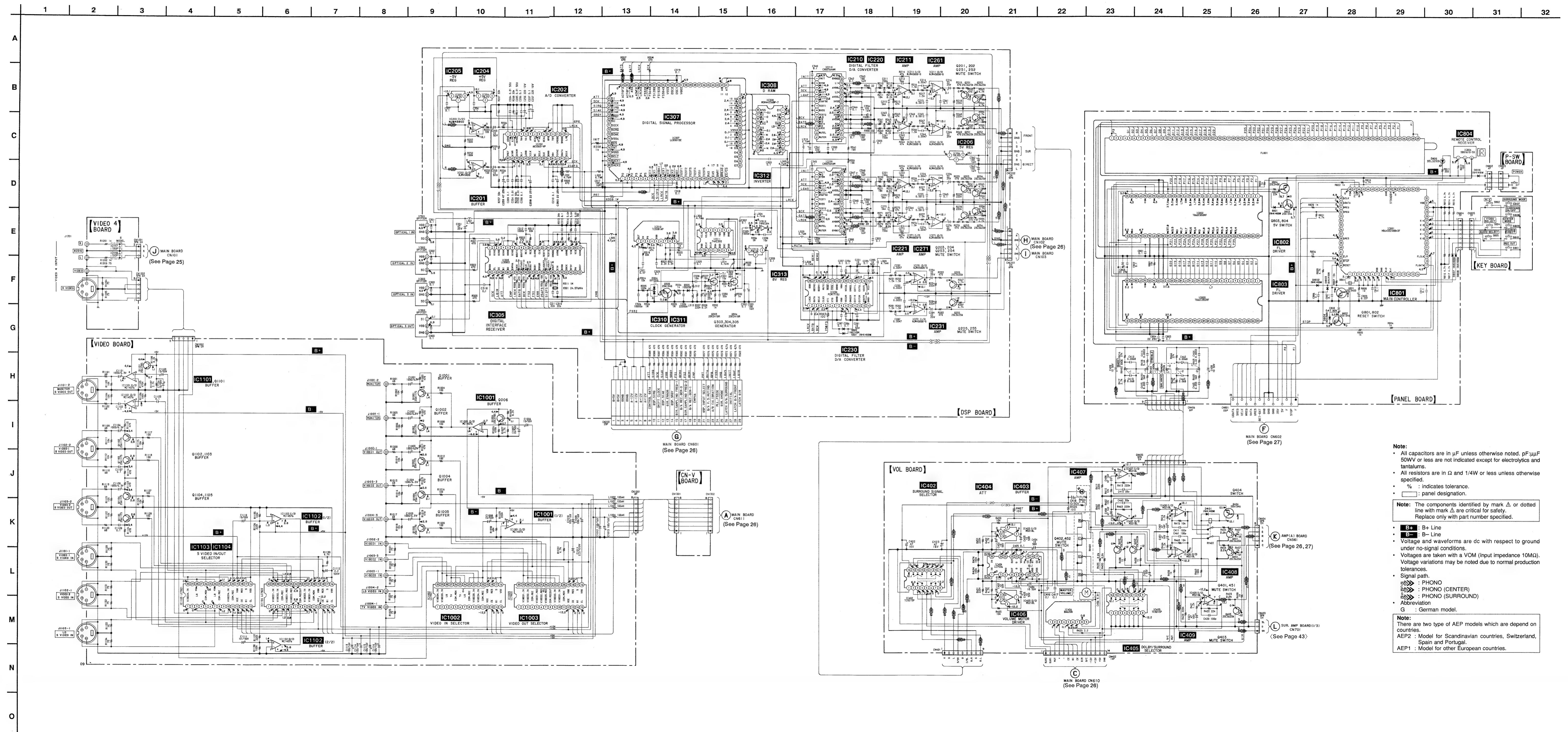
Note:
 •  : parts extracted from the component side.
 •  : Pattern from the side which enable seeing.

Abbreviation
 G : German model.

Note:
 There are two type of AEP models which are depend on countries.
 AEP2 : Model for Scandinavian countries, Switzerland, Spain and Portugal.
 AEP1 : Model for other European countries.



3-6. SCHEMATIC DIAGRAM — VIDEO SECTION —
 • See page 45 for IC Block Diagrams.
 • See pages 51, 57 for IC Pin Functions. (IC202, 305, 307, 801)



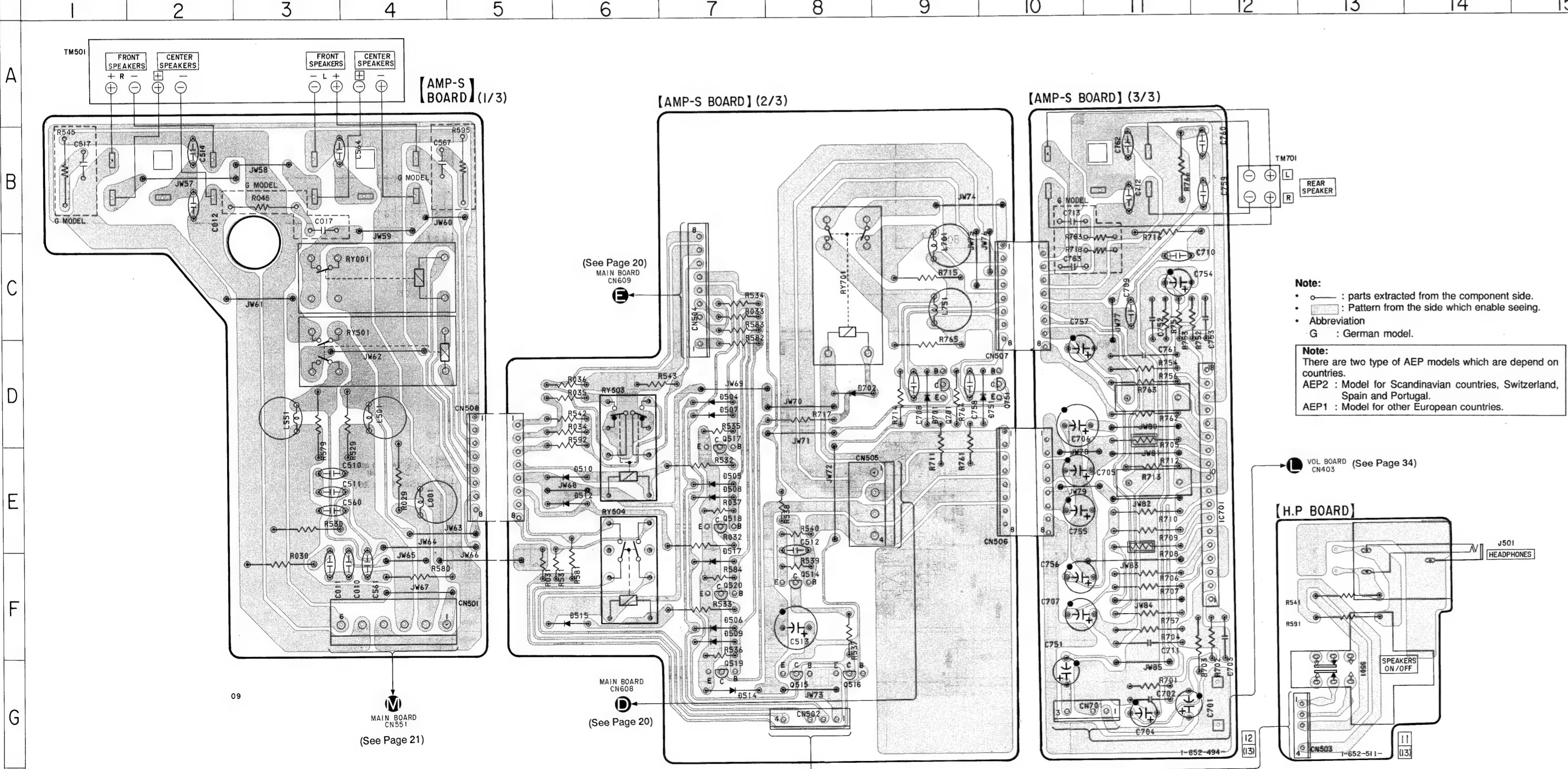
3-7. PRINTED WIRING BOARD — AMP-S SECTION —

See page 14 for Circuit Boards Location

- See page 14 for Circuit Boards Location.
- See page 49 for Semiconductor Lead Layouts.

- Semiconductor Location

Ref. No.	Location
D504	D-7
D505	E-7
D506	F-7
D507	D-7
D508	E-7
D509	F-7
D510	E-6
D512	E-6
D514	G-7
D515	F-6
D517	F-7
D701	D-9
D702	D-8
D751	D-10
IC701	E-12
Q514	F-8
Q515	G-8
Q516	G-8
Q517	E-7
Q518	E-7
Q519	G-7
Q520	F-7
Q701	D-9
Q751	D-10



3-8. SCHEMATIC DIAGRAM — AMP-S SECTION —

Note:

- All capacitors are in μF unless otherwise noted. $\text{pF}:\mu\text{F}$
50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- % : indicates tolerance.
-  : nonflammable resistor.
-  : panel designation.

Note: The components identified by mark  or dotted line with mark  are critical for safety.
Replace only with part number specified.

C

-  : B+ Line
-  : B- Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance $10M\Omega$). Voltage variations may be noted due to normal production tolerances.
- Abbreviation

D

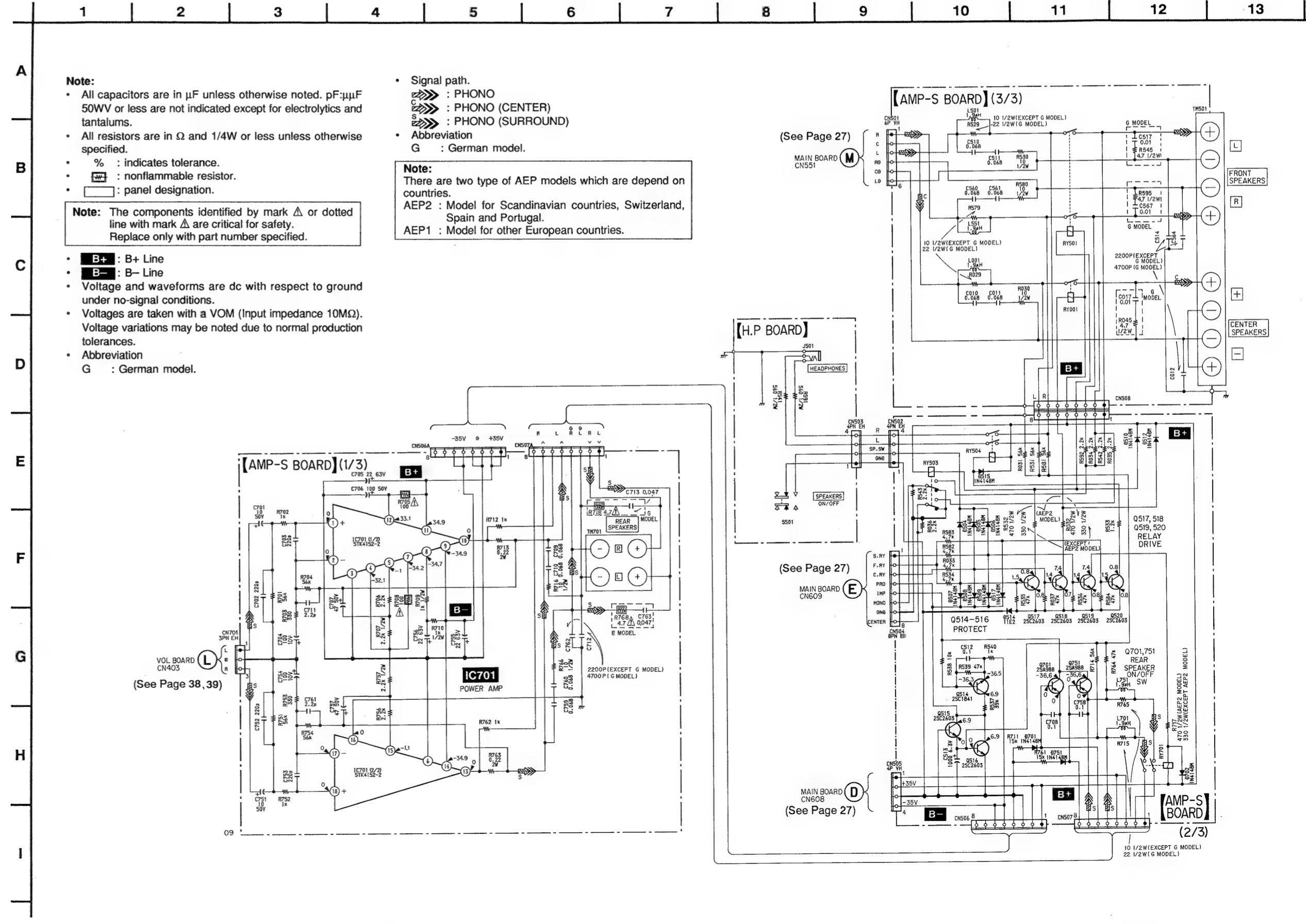
G : German model.

B

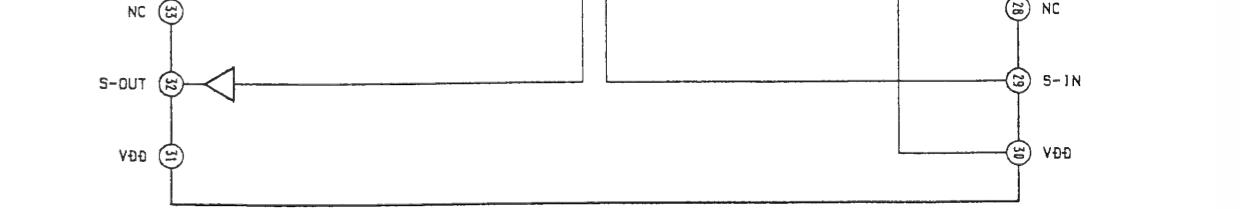
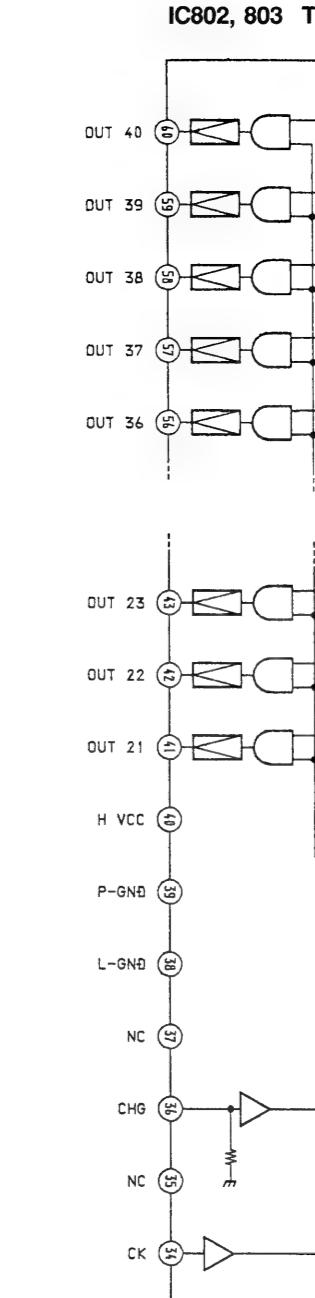
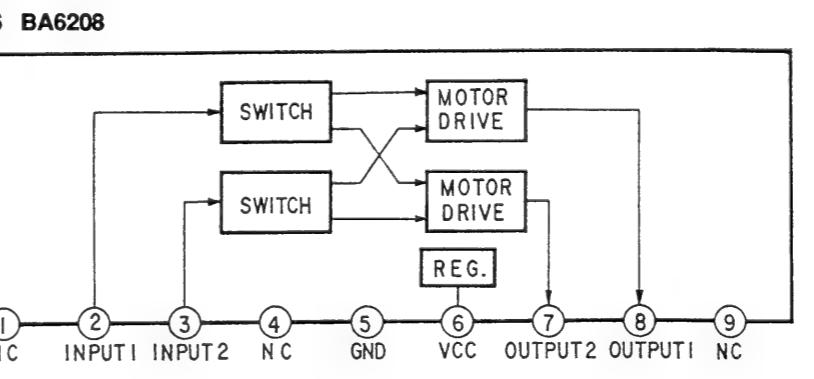
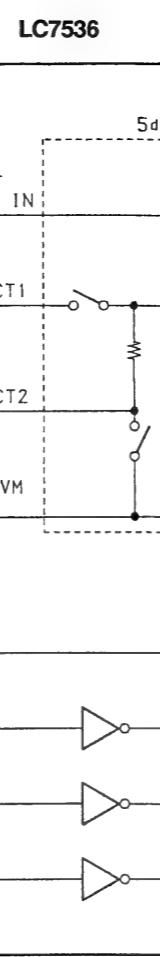
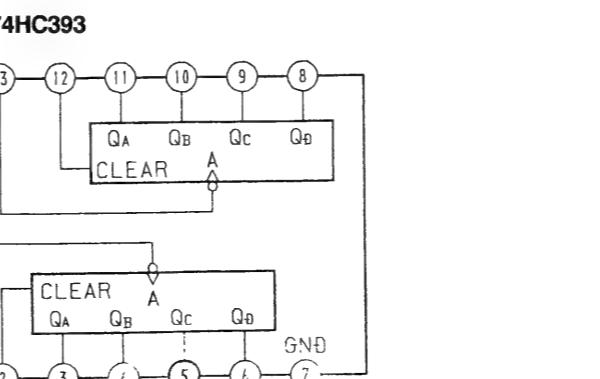
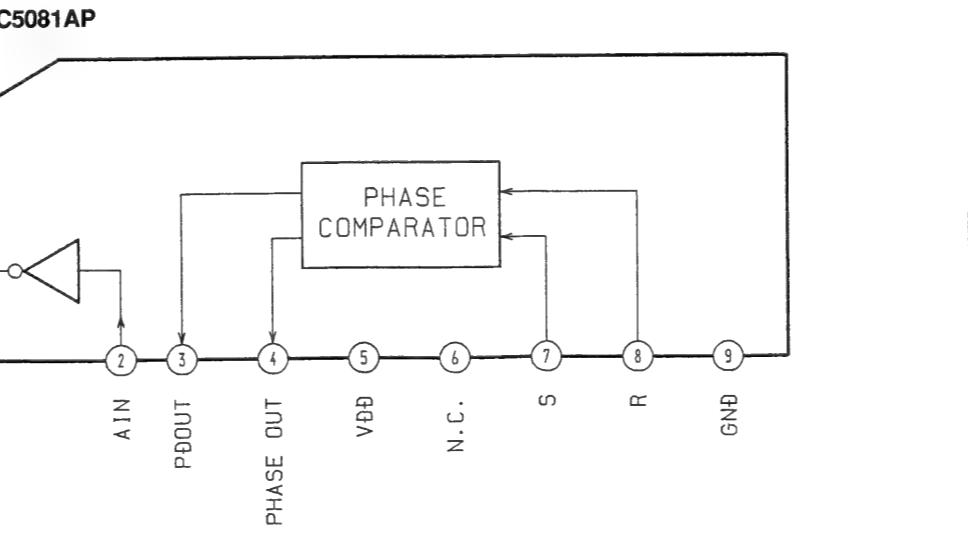
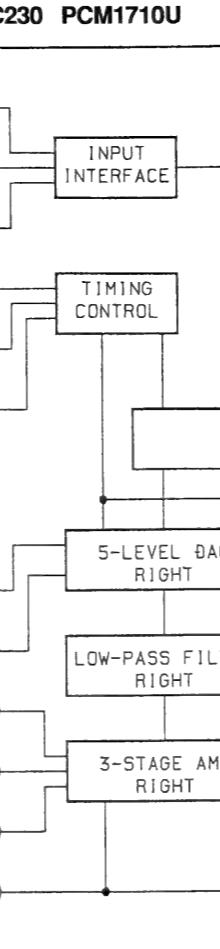
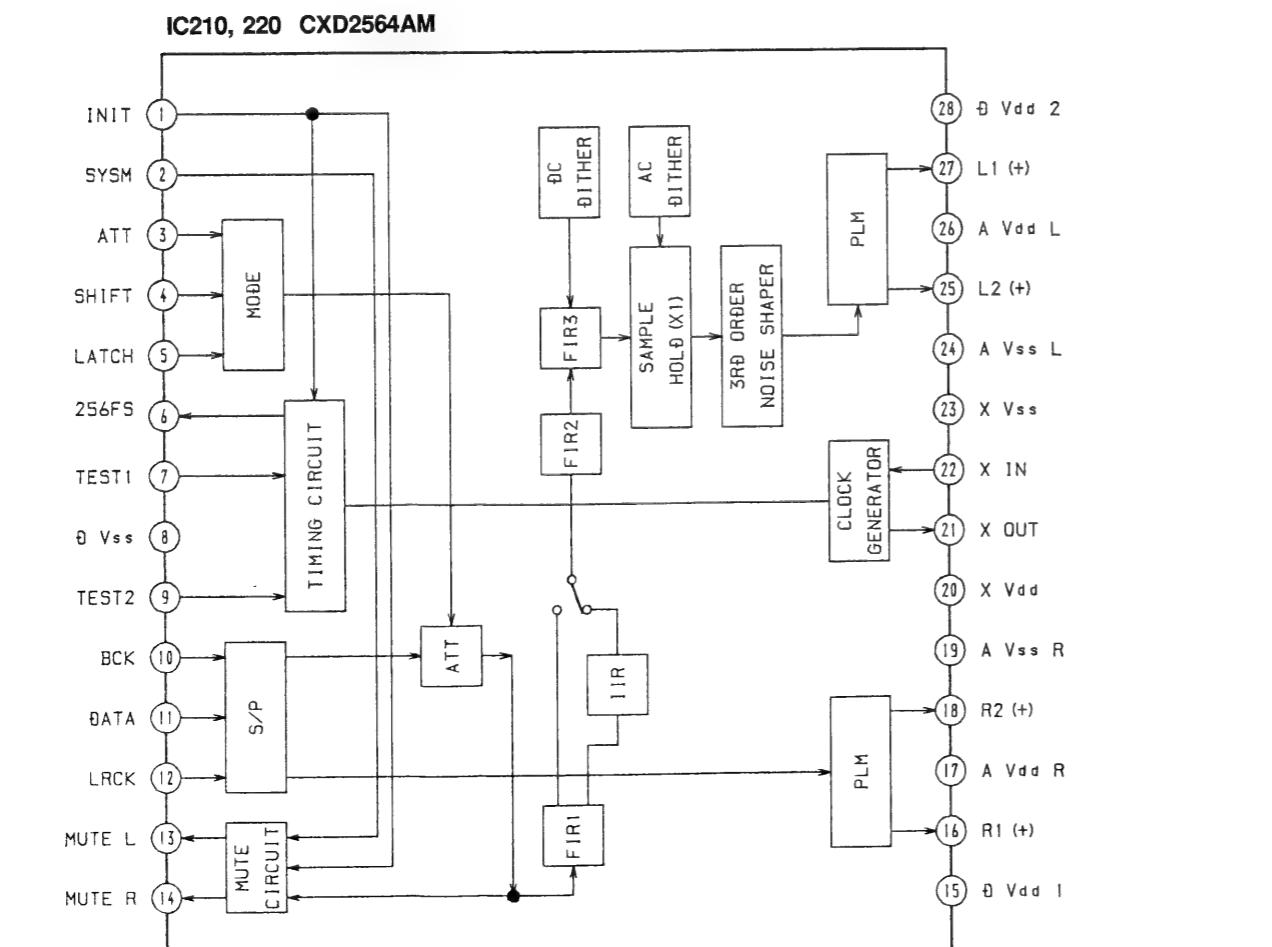
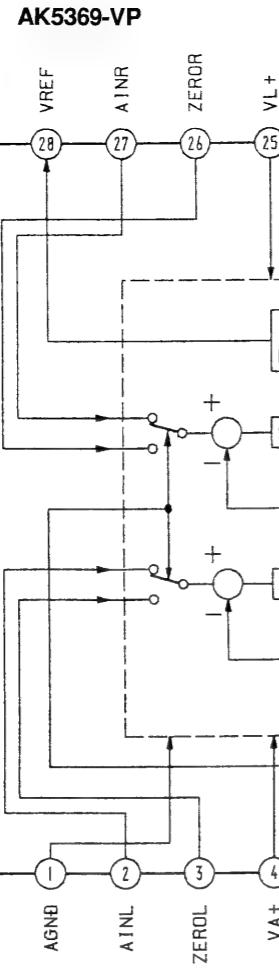
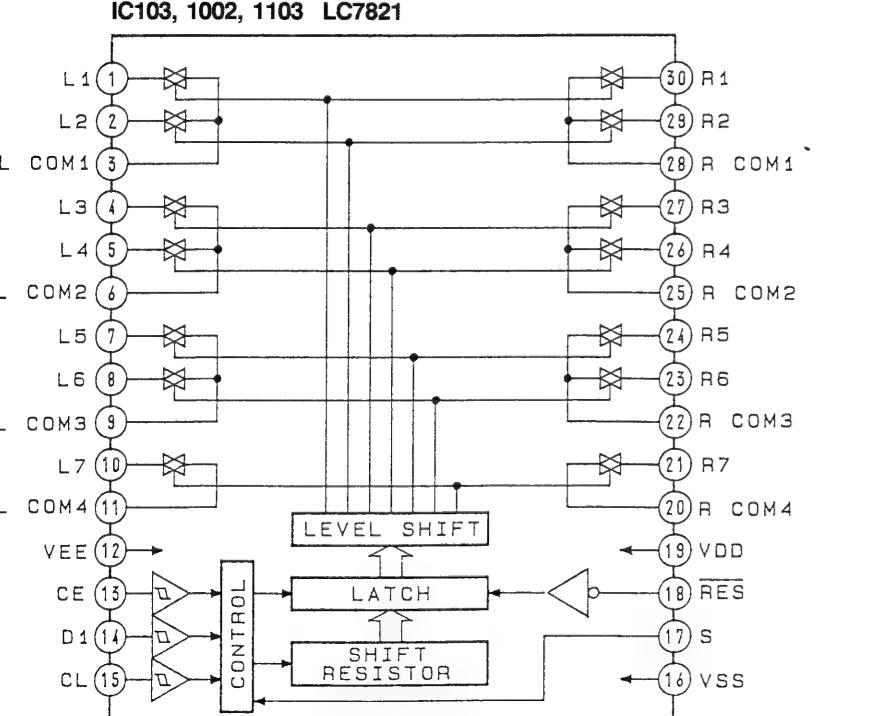
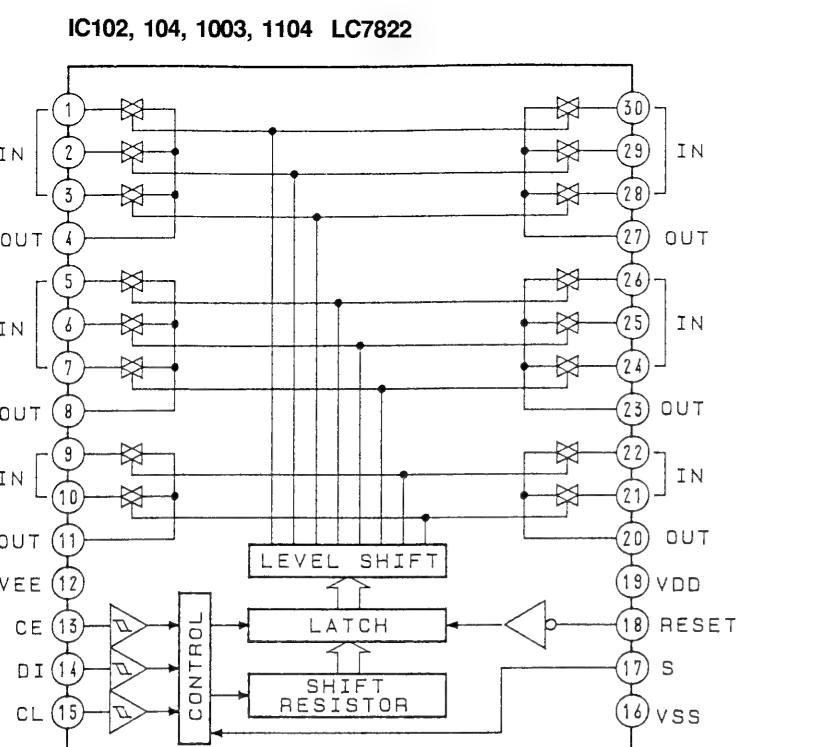
Note
Ther
cour
AEP

A

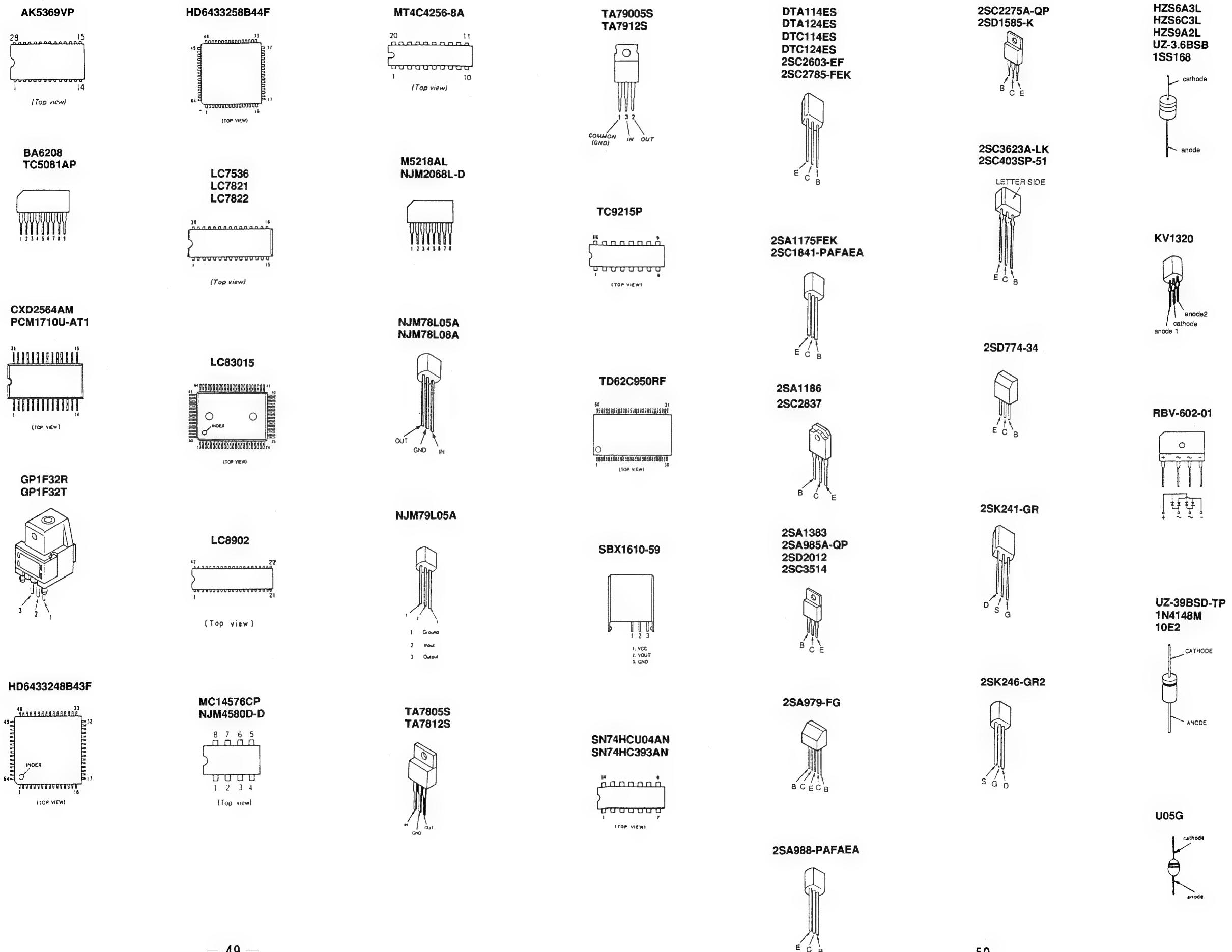
- Sig
- C
- S
- G



3-9. IC BLOCK DIAGRAMS



3-10. SEMICONDUCTOR LEAD LAYOUTS



3-11. IC PIN FUNCTIONS

- IC202 2-channels A/D Converter (AK5369VP)

Pin No.	Pin Name	I/O	Function
1	AGND	—	Analog part. Analog ground terminal.
2	AINL	I	L-ch analog input terminal.
3	ZEROL	I	L-ch zero level input terminal, connected to AGND.
4	VA+	—	Analog part. Analog plus power supply terminal, connected to A +5V.
5	VA-	—	Analog part. Analog minus power supply terminal, connected to A -5V.
6	APD	I	Analog part. Power down terminal, the power down mode is "H".
7	ACAL	I	Analog calibration terminal. Normally, connected to DCAL terminal. Input terminal of external signal is transferred due to this terminal level. "H": zero level input terminal (ZEROL, ZEROR), "L": analog input terminal (AINL, AINR)
8	NC	—	Out of use. (open)
9	DCAL	O	Digital calibration terminal. Offset calibration executing is shown. Normally, connected to ACAL terminal. The potential rises up momentarily after power down signal is input to DPD terminal. Then, it is held "L" after a period of $4096L\bar{R}$ (about 85 ms at $f_s=48$ kHz) from DPD terminal rising down, this shows to finish calibration.
10	DPD	I	Digital part. When power down terminal is "H", this terminal is power down mode.
11	TST	I	Test terminal, connected to DGND.
12	CMODE	I	Master clock choosing terminal, connected to DGND. "L": $CLK=256fs$ (12.288 MHz @ $f_s=48$ kHz), "H": $CLK=384fs$ (18.432 MHz @ $f_s=48$ kHz)
13	S MODE	I	Interface lock terminal, connected to DGND. Each clock terminal input/output of L/XR, SCLK, FSYNC are set. "L": slave mode (each terminal is all input), "H": master mode (each terminal is all output)
14	L/R	O	Input channel choosing terminal. f_s clock is output. SDATA, after 1 SCLK from L/R edge, is output. When the power supply is down (DPD="H"), the potential is "H". (master mode)
15	SCLK	O	Serial data clock terminal. At this terminal rising down, 1 bit of output data is output. 64fs clock signal is output. When the power supply is down (DPD="H"), the potential is "L". (master mode)
16	SDATA	O	Serial data output terminal. The data is output 18 bit from MSB at 2's complement, and it is output "L" for more than 19 pieces of SCLK input. When the power supply is down (DPD="H"), the potential is "L".
17	FSYNC	O	Frame synchronized clock terminal, out of use. (open)
18	VD+	—	Digital part. Power supply terminal, connected to D +5V.
19	DGND	—	Digital part. Ground terminal.
20	CLK	I	Master clock input terminal, CMODE="H": 384fs, CMODE="L": 256fs.
21	OCLK	O	128fs clock output terminal. When power supply is down (DPD="H"), this terminal is "L".
22	NC	—	Out of use. (open)
23	ICLK	I	128fs input terminal, this terminal is clock of analog part. Connected to OCLK terminal.
24	LGND	—	Analog part, logic ground terminal.
25	VL+	—	Analog part. Logic power supply terminal, connected to A +5V.
26	ZEROR	I	R-ch zero level input terminal, connected to AGND. Normally, R-ch offset is calibrated on this terminal input voltage is zero level.
27	AINR	I	R-ch analog input terminal.
28	VREF	O	Standard voltage output terminal, -3.68V. Input signal full scale depends on this voltage. When VREF=-3.68V, it is FS= ± 3.68V.

• IC305 Digital Audio Interface (LC8902)

Pin No.	Pin Name	I/O	Function
1	DIN1	I	Data input with amplifier, correspondence to TTL.
2	DIN2	I	
3	DIN3	I	
4	DIN4	I	
5	DGND	—	GND (ground)
6	DIN5	I	Data input without amplifier.
7	DOUT1	O	Data output, correspondence to CMOS.
8	DOUT2	O	
9	RC1	I	RC clock input.
10	RC2	O	RC clock output.
11	CLKMD	I	Output clock switching for CLK OUT2. (512fs: H, 384fs: L)
12	CLK	I	Switching for clock mode. (512fs: H, 384fs: L)
13	TEST1	I	Test mode input, normally "L".
14	TEST2	I	
15	XMODE	I	Reset signal input for graphic controller (IC600), normally "L".
16	AVDD	—	Analog power supply terminal. (A +5V)
17	R	I	VCO oscillation band adjustment input.
18	AGND	—	GND
19	VIN	I	Setting input for VCO self-running oscillator.
20	VCO	O	Output for LPF on PLL.
21	DGND	—	GND
22	SBSY	O	Sub-code interface block sync signal output. (out of use)
23	PW	O	Sub-code interface data output. (out of use)
24	SFSY	O	Sub-code interface frame sync signal output. (out of use)
25	SBCK	I	Sub-code interface bit clock input. (out of use)
26	DVDD	—	Digital power supply terminal. (D +5V)
27	XIN	I	Crystal oscillator input. (24.576 MHz)
28	XOUT	O	Crystal oscillator output. (24.576 MHz)
29	CLKOUT1	O	VCO, clock signal output of crystal oscillator.
30	CLKOUT2	O	Clock signal output of 256fs and 128fs.
31	ERROR	O	error muting signal output.
32	SUB1	O	Sampling frequency output.
33	SUB2	O	
34	BCLK	O	Bit clock signal output.
35	DATAOUT	O	Audio data output.
36	LRCK	O	L and R clock signal output.
37	EMPHA	O	Emphasis signal output. (ON: H. OFF, analog mode: L)
38	DO	O	Microcomputer interface output. (out of use)
39	DI	I	Microcomputer interface input.
40	CE	I	Microcomputer interface tip enable input.
41	CL	I	Microcomputer interface clock input.
42	DVDD	—	Digital power supply terminal. (D +5V)

• IC307 Digital Signal Processor (LC83015E)

Pin No.	Pin Name	I/O	Function
1 to 6	P0 to P4	I/O	General input/output port, a pull up resister is installed.
7	ASI1	I	Audio data serial input 1.
8	BCK1	I	Bit clock input, for ASI1 input. (64fs or 32fs are applied.)
9	FS384I	I	384fs or 512fs input.
10	LRCK1	I	L/R channel distinction signal input. (H: L-ch, L: R-ch.)
11	ASI2	I	Audio data serial input 2.
12	BCK2	I	Bit clock input, for ASI2 input. (64fs or 32fs are applied.)
13	VDD1	—	Power supply terminal +5V.
14 to 17	TEST1 to 4	I	Test input, connect to GND (ground).
18	Vss1	—	GND
19	TEST5	O	Test output, to be not connected.
20	RAS	O	When accessing DRAM (IC308), RAS signal output.
21	CAS	O	When accessing DRAM (IC308), CAS signal output.
22	DWART	O	When accessing memory (IC308), data write signal out put.
23	DREAD	O	When accessing memory (IC308), data read signal output.
24	CE/CS	O	Tip enable signal output to SRAM and Para-SRAM. (out of use)
25 to 28	D7 to D4	I/O	Data input/output with memory. (out of use)
29 to 32	D3 to D0	I/O	Data input/output with memory (IC308).
33	Vss2	—	GND
34 to 42	A0 to A8	O	Address output to memory (IC308).
43 to 50	A9 to A16	O	Address output to memory. (out of use)
51	VDD2	—	Power supply terminal +5V.
52	OSC1	I	Input for crystal oscillator. (out of use, connected to GND.)
53	OSC2	O	Output for crystal oscillator. (out of use)
54	VSS3	—	GND
55	FS3840	O	384fs or 512fs output. (out of use)
56	FS1920	O	192fs or 256fs output. (out of use)
57	FS1280	O	128fs output. (out of use)
58	FS640	O	64fs or 32fs output.
59	FS320	O	32fs or 16fs output. (out of use)
60	LRCK0	O	1fs output.
61	AOWCK	O	2fs or 1fs output.
62	ASO	O	Audio data serial output 1.
63	AOTDF1	O	Audio data serial output 2. (out of use)
64	AOTDF2	O	Audio data serial output 3.
65	SI	I	Serial data input from microcomputer (IC600).
66	SICK	I	Clock input for serial data from microcomputer (IC600).
67	SIRQ	I	Request signal input into serial data input from micro computer (IC600).
68	SIAK	O	Serial-input executing output to microcomputer (IC600).
69	SRDY	I	Serial data-input exited input from microcomputer (IC600).
70	SO	O	Serial data output to microcomputer. (out of use)

Pin No.	Pin Name	I/O	Function
71	SOCK	I	Serial clock input for SO. (out of use)
72	<u>SORQ</u>	I	Serial data-output request signal input. (out of use)
73	<u>SOAK</u>	O	Serial data-output executing output. (out of use)
74	Vss4	—	GND
75	<u>RES</u>	I	Reset signal input from microcomputer (IC600).
76	<u>INT</u>	I	Interrupt request input. (connected to +5V.)
77	VDD3	—	Power supply terminal +5V.
78	<u>SEL</u> C	I	System clock switching (FS384I: L, Self-running oscillator clock: H). (Using FS384I)
79	<u>SACK1</u>	I	FS3840 output switching (1/3 divided frequency output to FS1280: L, 1/4 divided frequency output to FS1280: H). (1/4 devided frequency to FS1280)
80	<u>SACK2</u>	I	FS output clock switching (external input: L, self- running oscillator clock: H). (in use external input)

• IC600 Sub-Controller (HD6433258B44F)

Pin No.	Pin Name	I/O	Function																			
1	XTAL	O	System clock output. (20 MHz)																			
2	EXTAL	I	System clock input. (20 MHz)																			
3	MD	I	System mode input, fixed into "H". (connected to +5V)																			
4	MDO	I																				
5	—	—	Out of use (GND).																			
6	Vcc	—	Power supply terminal (+5V).																			
7	STBY	I	Stand-by mode input, fixed into "H". (connected to +5V)																			
8	Vss	—	GND (ground)																			
9 to 16	—	—	Out of use (GND).																			
17	ATT	O	Serial data output to digital signal processor (IC307).																			
18	RY-PW	O	Power relay (RY001) drive, normally "H".																			
19	SCK	O	Clock output to digital signal processor (IC307).																			
20	RY-C	O	Center speaker relay (RY001) drive, normally "H".																			
21	RY-F	O	Front speaker relay (RY501) drive, normally "H".																			
22	RY-S	O	Rear speaker relay (RY701) drive, normally "H".																			
23	PROTECT	I	Protect signal input, normally "H", abnormally "L".																			
24, 25	—	—	Out of use (GND).																			
26	ERR	I	Error signal input, this is "H" when clock is not locked on digital input.																			
27	FS1	I	<table border="1"> <tr> <td></td><td>32k</td><td>44.1k</td><td>48k</td><td>ERROR</td></tr> <tr> <td>FS1</td><td>H</td><td>L</td><td>L</td><td>H</td></tr> <tr> <td>FS2</td><td>H</td><td>L</td><td>H</td><td>L</td></tr> </table>		32k	44.1k	48k	ERROR	FS1	H	L	L	H	FS2	H	L	H	L	FS discriminating port.			
	32k	44.1k	48k	ERROR																		
FS1	H	L	L	H																		
FS2	H	L	H	L																		
28	FS2	I																				
29	EMP	I	Emphasis input, on: "H", off or analog mode: "L".																			
30	PRT	O	Input-switching output to digital signal processor (IC307). (digital: H, analog: L)																			
31	Vcc	—	Power supply terminal (+5V).																			
32	DPD	O	Reset output to A/D converter (IC202), normally "H".																			
33	XMD	O	Reset output to digital audio interface (IC305), normally "L".																			
34	INIT	O	Reset signal output to digital signal processor (IC307), normally "L".																			
35	LDIR	O	Data latch output to digital signal interface (IC305), normally "H".																			
36	LDAF	O	Data latch output to D/A converter (IC210), normally "L".																			
37	LDAS	O	Data latch output to D/A converter (IC220), normally "L".																			
38	—	—	Out of use (GND).																			
39	FS32	O	FS 32 kHz/44 kHz, 48 kHz output, for PLL circuit switching, normally "H".																			
40	—	—	Out of use (GND).																			
41	MUTA	O	Muting signal output to speaker, normally "L".																			
42	MUTR	O	Out of use (GND).																			
43	MUTE	O	Muting signal output at the first part of amplifier, normally "H".																			
44	SRDY	O	Ready signal output to digital signal processor (IC307), normally "L".																			
45	SIAK	I	Access-confirming signal input to digital signal processor (IC307), normally "L".																			
46	SIRQ	O	Requesting signal output to digital signal processor (IC307), normally "L".																			
47	DEM1	O	<table border="1"> <tr> <td></td><td>44.1kHz</td><td>OFF</td><td>48kHz</td><td>32kHz</td></tr> <tr> <td>DEM1</td><td>H</td><td>L</td><td>H</td><td>L</td></tr> <tr> <td>DEM0</td><td>H</td><td>L</td><td>L</td><td>H</td></tr> </table>		44.1kHz	OFF	48kHz	32kHz	DEM1	H	L	H	L	DEM0	H	L	L	H	De-emphasis setting.			
	44.1kHz	OFF	48kHz	32kHz																		
DEM1	H	L	H	L																		
DEM0	H	L	L	H																		
48	DEM0	O																				
49	DIR	O	Source direct switch. (ON: L, OFF: H)																			
50	C/S	O	Surround-sound switch. (DOLBY: "H", the other: "L")																			

Pin No.	Pin Name	I/O	Function							
51	MV-	O	Volume down controlled output, normally "H".							
52	MV+	O	Volume up controlled input, normally "H".							
53	SUR1	O		TV ON	TV OFF	TV DIR	DIG	ELSE ON	ELSE OFF	ELSE DIR
54	SUR2	O	SUR1	L	H	H	L	L	H	H
			SUR2	L	H	L	L	L	H	H
55	—	—	Out of use (GND).							
56	SREQ	O	Slave requesting data output to microcomputer (IC801).							
57	UCLK	I	Clock signal input from microcomputer (IC801).							
58	UDAT	I	Data signal input from microcomputer (IC801).							
59	MREQ	I	Request signal input from microcomputer (IC801).							
60	CL	O	Clock signal output to function IC.							
61	DI	O	Data signal output to function IC.							
62	CE	O	Data latch output to audio selector (IC102, 103, 104).							
63	CE	O	Data latch output to video selector (IC1002, 1103, 1104).							
64	URES	I	Reset signal input from microcomputer (IC801), normally "H".							

- **IC801 Main Controller (HD6433248B43F)**

Pin No.	Pin Name	I/O	Function
1	XTAL	O	Clock output.
2	EXTAL	I	Clock input.
3 to 6			Out of use. (connected to +5V)
7	VDD	—	Power supply terminal +5V.
8	GND	—	GND. (ground)
9	KO0	O	Key output.
10	KO1	O	
11 to 16			Out of use. (open)
17	FLDATA	O	Data output for FL indicator.
18			Out of use. (open)
19	FLCLK	O	Clock output for FL indicator.
20 to 22			Out of use. (open)
23	KI0	I	Key input.
24	KI1	I	
25	KI2	I	
26	KI3	I	
27	KI4	I	
28 to 30			Out of use. (open)
31	VDD	—	Power supply terminal +5V.
32 to 39			Out of use. (open)
40	GND	—	GND
41 to 45			Out of use. (open)
46	DATA	I	Circs signal input from remote commander receiver (IC804).
47	FLCE	O	Latch out put to FL indicator drive (IC802, 803).
48	POW	I	Power switch (S801) on input.
49	UCLK	O	Clock output to microcomputer (IC600).
50	UDATA	I/O	Data input/output from/to microcomputer (IC600).
51	MREQ	O	Request output to microcomputer (IC600).
52	SREQ	I	Request input/output from microcomputer (IC600).
53 to 57			Out of use. (open)
58	URES	O	Reset output to microcomputer (IC600).
59 to 61			Out of use. (open)
62	CLR	O	Clear output to FL indicator drive (IC802, 803).
63	STOP	I	Power supply supervising port input.
64	RESET	I	Reset input from power part.

SECTION 4

EXPLODED VIEWS

NOTE:

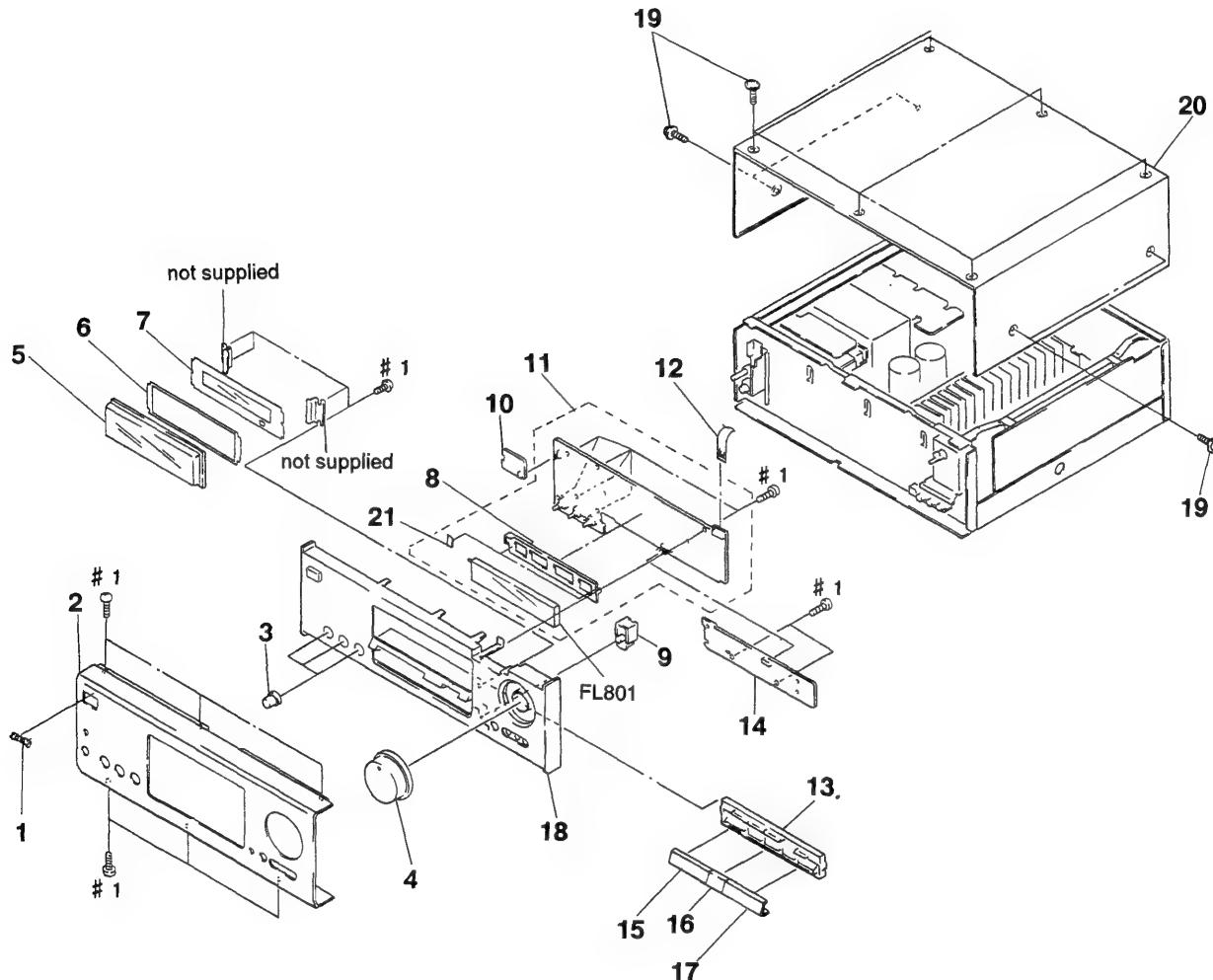
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The mechanical parts with no reference number in the exploded views are not supplied.

- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
G : German model

The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

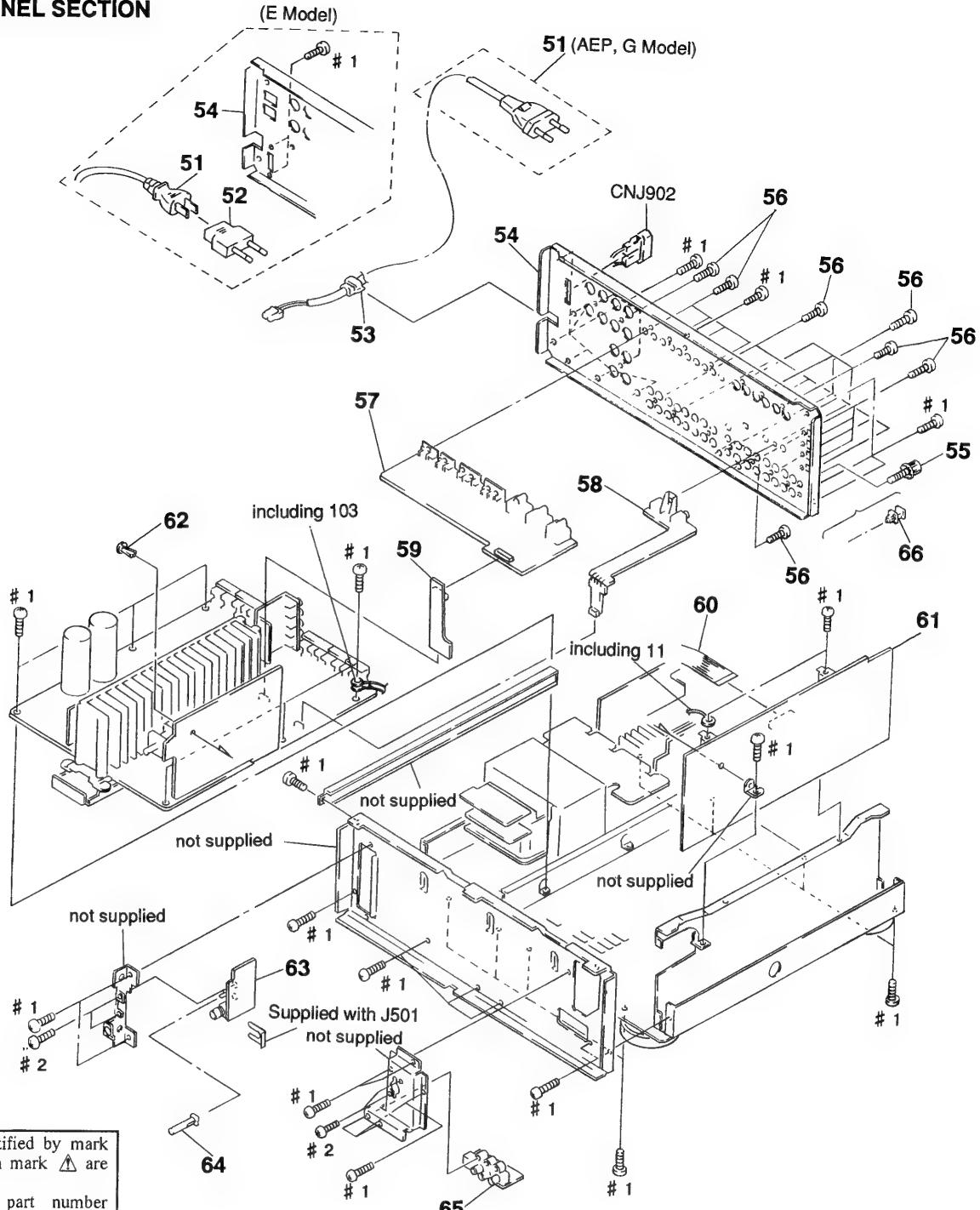
4-1. FRONT PANEL SECTION

Note:
There are two type of AEP models which are depend on countries.
AEP2: Model for Scandinavian countries, Switzerland, Spain and Portugal
AEP1: Model for other European countries



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	4-942-568-01	EMBLEM (NO. 5), SONY		12	1-590-882-11	WIRE, FLAT TYPE (15 CORE)	
2	4-966-127-21	PANEL (G), FRONT		13	X-4944-860-1	BUTTON (BASE) ASSY	
3	X-3365-387-1	KNOB (BAL) ASSY (B)		* 14	1-652-505-11	KEY BOARD	
4	X-4942-798-1	KNOB (R53) ASSY		15	4-966-139-01	BUTTON (F) (VIDEO)	
5	4-966-131-01	WINDOW, TRANSPARENT		16	4-966-139-11	BUTTON (F) (MIX)	
6	4-966-132-01	SPACER (G)		17	4-966-139-21	BUTTON (F) (AUDIO)	
7	4-966-130-12	FILTER (A)		18	X-4944-858-1	BASE ASSY, FRONT PANEL	
* 8	4-966-143-01	HOLDER (S), FL TUBE		19	3-704-366-01	SCREW (CASE) (M3X8)	
9	4-966-142-01	BUTTON (R1)		20	4-966-116-01	CASE	
* 10	1-652-506-11	P-SW BOARD		* 21	4-921-941-81	CUSHION (FL)	
* 11	A-4371-604-A	PANEL BOARD, COMPLETE		FL801	1-517-244-11	INDICATOR TUBE, FLUORESCENT	

4-2. BACK PANEL SECTION

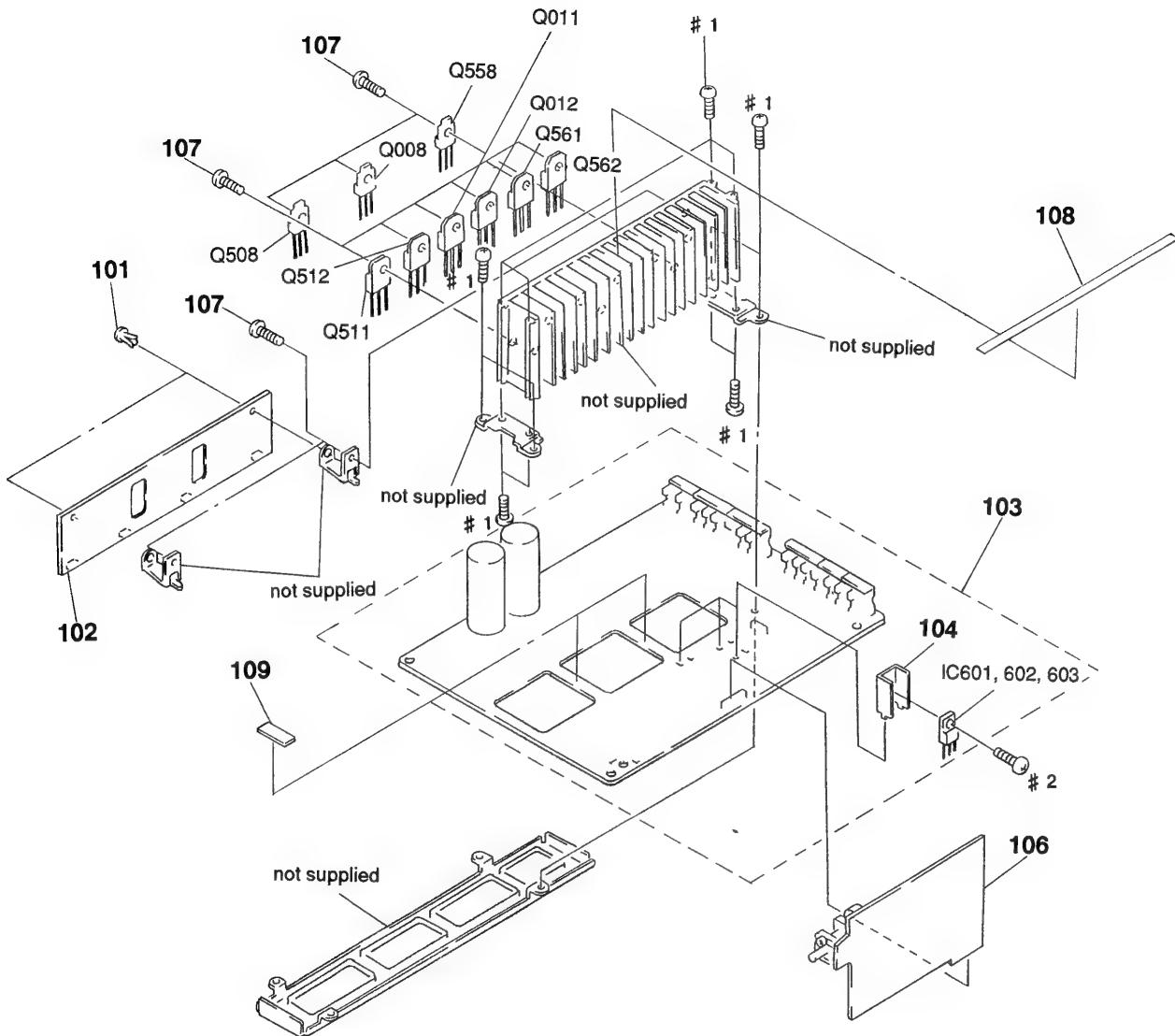


The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description
\triangle 51	1-559-297-31	CODE, POWER (E)
\triangle 51	1-574-383-11	CORD, POWER (AEP1, AEP2, G)
\triangle 52	1-569-007-11	ADAPTER, CONVERSION 2P (E)
53	2-352-626-01	BUSHING, CORD (E)
* 53	3-703-244-00	BUSHING (2104), CORD (AEP1, AEP2, G)
* 54	4-966-126-23	PANEL, BACK (AEP1)
* 54	4-966-126-33	PANEL, BACK (AEP2)
* 54	4-966-126-43	PANEL, BACK (G)
* 54	4-966-126-51	PANEL, BACK (E)
55	4-947-010-01	SCREW, FEEDER FIXED
56	3-704-515-11	SCREW (BV/RING)

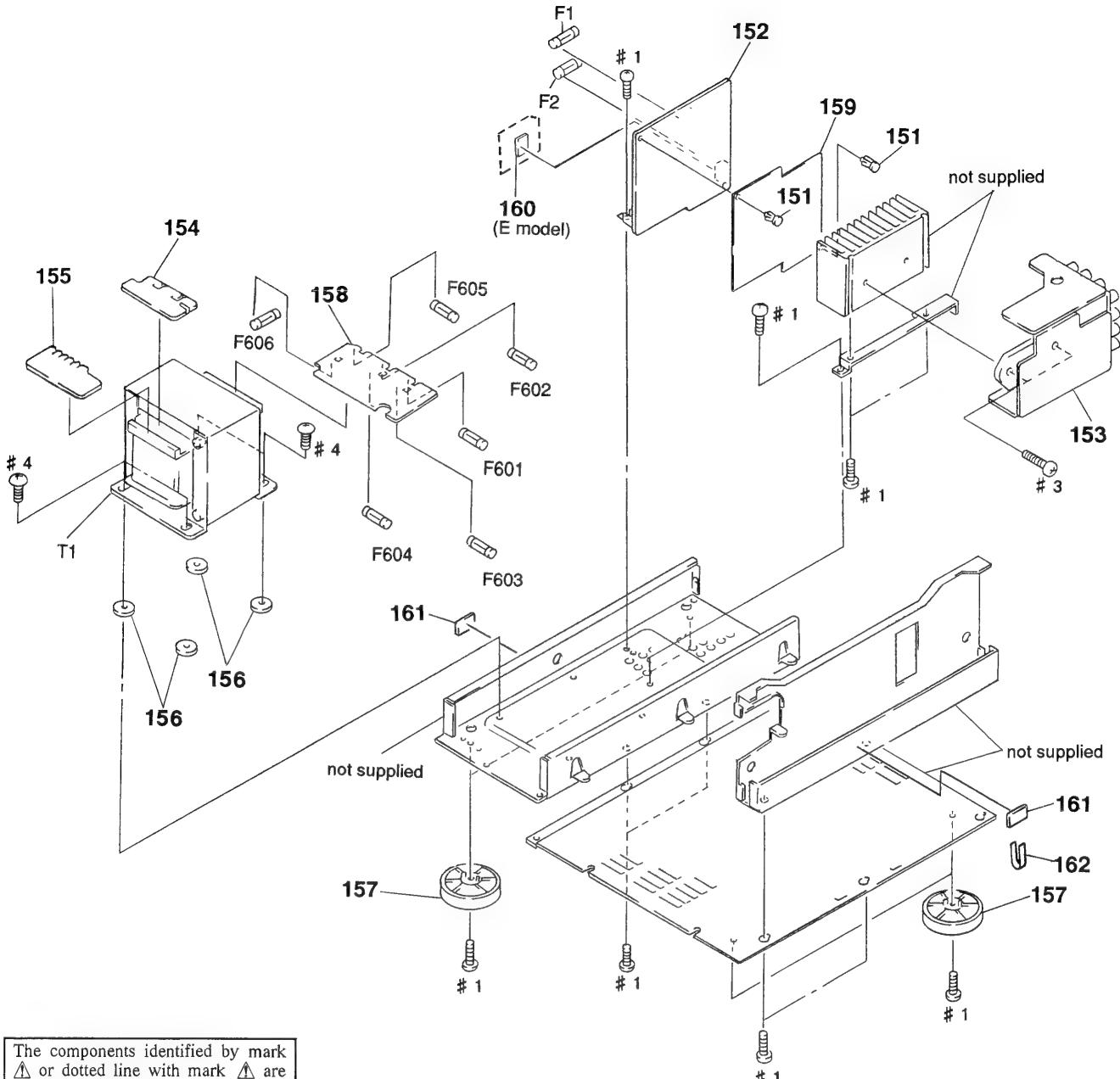
Remark	Ref. No.	Part No.	Description	Remark
	* 57	A-4371-115-A	VIDEO BOARD, COMPLETE	
	* 58	1-653-796-11	SIRCS BOARD	
	* 59	1-652-495-11	CN-V BOARD	
	60	1-690-782-11	WIRE (FLAT TYPE) (29 CORE)	
	* 61	A-4371-106-A	DSP BOARD, COMPLETE	
	62	4-812-134-00	RIVET NYLON, 3.5	
	* 63	1-652-511-11	H. P. BOARD	
	64	4-966-140-01	BUTTON (A)	
	* 65	1-652-510-11	VIDEO 4 BOARD	
	66	1-251-199-11	CAP (OPT)	
	\triangle CNJ902	1-526-794-11	OUTLET, AC (AEP, G)	

4-3. MAIN BOARD SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	4-812-134-00	RIVET NYLON, 3.5		IC601	8-759-231-58	IC TA7812S	
* 102	A-4371-120-A	AMP-A BOARD, COMPLETE (E)		IC602	8-759-245-86	IC TA7912S	
* 102	A-4371-614-A	AMP-A BOARD, COMPLETE (G)		IC603	8-759-231-53	IC TA7805S	
* 102	A-4371-681-A	AMP-A BOARD, COMPLETE (AEP1, AEP2)		Q008	8-729-141-89	TRANSISTOR 2SD1585-K	
* 103	A-4371-605-A	MAIN BOARD, COMPLETE (AEP1, E)		Q011	8-729-383-73	TRANSISTOR 2SC2837	
* 103	A-4371-609-A	MAIN BOARD, COMPLETE (G)		Q012	8-729-318-63	TRANSISTOR 2SA1186	
* 103	A-4371-790-A	MAIN BOARD, COMPLETE (AEP2)		Q508	8-729-141-89	TRANSISTOR 2SD1585-K	
* 104	4-880-403-11	HEAT SINK		Q511	8-729-383-73	TRANSISTOR 2SC2837	
* 106	A-4371-682-A	VOL BOARD, COMPLETE (AEP1, AEP2, G)		Q512	8-729-318-63	TRANSISTOR 2SA1186	
* 106	A-4371-768-A	VOL BOARD, COMPLETE (E)		Q558	8-729-141-89	TRANSISTOR 2SD1585-K	
107	3-905-609-01	SCREW (TRANSISTOR)		Q561	8-729-383-73	TRANSISTOR 2SC2837	
108	4-927-653-01	SHOOT (F/P)		Q562	8-729-318-63	TRANSISTOR 2SA1186	
109	3-302-067-00	RETAINER, PC BOARD					

4-4. CHASSIS SECTION



The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	4-812-134-00	RIVET NYLON, 3.5		162	4-969-920-01	SHEET (GROUND)	
* 152	A-4371-607-A	AC BOARD, COMPLETE (AEP1, AEP2, G)		△F1	1-532-237-00	FUSE, TIME LAG (T3. 15A 250V)	
* 152	A-4371-615-A	AC BOARD, COMPLETE (E)		△F2	1-532-237-00	FUSE, TIME LAG (T3. 15A 250V) (E)	
* 153	A-4371-606-A	AMP-S BOARD, COMPLETE (AEP1, E)		△F2	1-532-286-00	FUSE (2.5A 250V) (AEP, G)	
* 153	A-4371-608-A	AMP-S BOARD, COMPLETE (AEP2)		△F601	1-532-299-00	FUSE (5.0A 250V)	
* 153	A-4371-613-A	AMP-S BOARD, COMPLETE (G)		△F602	1-532-299-00	FUSE (5.0A 250V)	
* 154	1-852-497-11	CN-AC BOARD (AEP1, AEP2, G)		△F603	1-532-259-00	FUSE (1.6A 250V)	
* 155	1-652-496-11	CN-M BOARD		△F604	1-532-259-00	FUSE (1.6A 250V)	
156	4-916-751-11	WASHER		△F605	1-532-259-00	FUSE (1.6A 250V)	
157	X-4941-617-1	FOOT (58175) ASSY		△F606	1-532-259-00	FUSE (1.6A 250V)	
* 158	1-653-797-11	CN-S BOARD		△T1	1-426-948-11	TRANSFORMER, POWER (AEP1, G)	
159	4-967-635-01	SHEET (INSULATING)		△T1	1-426-949-11	TRANSFORMER, POWER (AEP2)	
160	4-969-894-01	SPACER (V.S) (E)		△T1	1-426-950-11	TRANSFORMER, POWER (E)	
161	4-930-336-31	FOOT (FELT)					

SECTION 5

ELECTRICAL PARTS LIST

NOTE:

The components identified by mark  or dotted line with mark  are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board name.

Note:

There are two type of AEP models which are depend on countries.

AEP2 model: Model for Scandinavian countries, Switzerland, Spain and Portugal

AEP1 model: Model for other European countries

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
 - Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
 - Abbreviation
G : German model

• RESISTORS

All resistors are in ohms

METAL: Metal-film resistor

METAL: Metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F : nonflammable

T : nonflammable SEMICONDUCTOR

- SEMICONDUCTORS

In each case, $u: \mu$, for example:

uA...: μ A..., uPA...: μ PA..., uPB...: μ PB...,
 uPC...: μ PC..., uPD...: μ PD...

- CAPACITORS

uF : μ F

• COILS

100

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
*	A-4371-120-A	AMP-A BOARD, COMPLETE (E) *****						< TRANSISTOR >			
*	A-4371-614-A	AMP-A BOARD, COMPLETE (G) *****				Q001	8-729-620-18	TRANSISTOR	2SA979-FG		
*	A-4371-681-A	AMP-A BOARD, COMPLETE (AEP1, AEP2) *****				Q002	8-729-140-82	TRANSISTOR	2SA988-PAFAEA		
		< CAPACITOR >				Q003	8-729-119-79	TRANSISTOR	2SC2785-FEK		
C001	1-126-059-11	ELECT	10uF	20%	50V	Q004	8-729-201-56	TRANSISTOR	2SK246-GR2		
C002	1-130-469-00	MYLAR	680PF	5%	50V	Q005	8-729-119-79	TRANSISTOR	2SC2785-FEK		
C003	1-107-585-11	CERAMIC	5PF	0.25PF	500V	Q006	8-729-104-91	TRANSISTOR	2SA1383		
C004	1-126-024-11	ELECT	220uF	20%	25V	Q007	8-729-104-18	TRANSISTOR	2SC3514		
C005	1-126-051-11	ELECT	47uF	20%	50V	Q501	8-729-620-18	TRANSISTOR	2SA979-FG		
C006	1-161-959-00	CERAMIC	22PF	10%	500V	Q502	8-729-140-82	TRANSISTOR	2SA988-PAFAEA		
C007	1-161-959-00	CERAMIC	22PF	10%	500V	Q503	8-729-119-79	TRANSISTOR	2SC2785-FEK		
C015	1-110-339-11	MYLAR	220PF	5%	50V	Q504	8-729-201-56	TRANSISTOR	2SK246-GR2		
C501	1-126-059-11	ELECT	10uF	20%	50V	Q505	8-729-119-79	TRANSISTOR	2SC2785-FEK		
C502	1-130-469-00	MYLAR	680PF	5%	50V	Q506	8-729-104-91	TRANSISTOR	2SA1383		
C503	1-107-585-11	CERAMIC	5PF	0.25PF	500V	Q507	8-729-104-18	TRANSISTOR	2SC3514		
C504	1-126-024-11	ELECT	220uF	20%	25V	Q551	8-729-620-18	TRANSISTOR	2SA979-FG		
C505	1-126-051-11	ELECT	47uF	20%	50V	Q552	8-729-140-82	TRANSISTOR	2SA988-PAFAEA		
C506	1-161-959-00	CERAMIC	22PF	10%	500V	Q553	8-729-119-79	TRANSISTOR	2SC2785-FEK		
C507	1-161-959-00	CERAMIC	22PF	10%	500V	Q554	8-729-201-56	TRANSISTOR	2SK246-GR2		
C515	1-110-339-11	MYLAR	220PF	5%	50V	Q555	8-729-119-79	TRANSISTOR	2SC2785-FEK		
C551	1-126-059-11	ELECT	10uF	20%	50V	Q556	8-729-104-91	TRANSISTOR	2SA1383		
C552	1-130-469-00	MYLAR	680PF	5%	50V	Q557	8-729-104-18	TRANSISTOR	2SC3514		
C553	1-107-585-11	CERAMIC	5PF	0.25PF	500V		< RESISTOR >				
C554	1-126-024-11	ELECT	220uF	20%	25V	R001	1-247-713-11	CARBON	1K	5%	1/4W F
C555	1-126-051-11	ELECT	47uF	20%	50V	R002	1-249-497-11	CARBON	33K	5%	1/4W
C556	1-161-959-00	CERAMIC	22PF	10%	500V	R003	1-247-711-11	CARBON	680	5%	1/4W F
C557	1-161-959-00	CERAMIC	22PF	10%	500V	△R004	1-247-704-11	CARBON	220	5%	1/4W F
C565	1-110-339-11	MYLAR	220PF	5%	50V	△R005	1-247-704-11	CARBON	220	5%	1/4W F
	< CONNECTOR >					R006	1-259-436-11	CARBON	2.2K	5%	1/6W
CN561	1-691-767-11	PLUG (MICRO CONNECTOR) 5P				R007	1-259-452-11	CARBON	10K	5%	1/6W
* CN562	1-565-480-11	CONNECTOR, BOARD TO BOARD 4P				R008	1-259-464-11	CARBON	33K	5%	1/6W
* CN563	1-565-480-11	CONNECTOR, BOARD TO BOARD 4P				R009	1-259-460-11	CARBON	22K	5%	1/6W
* CN564	1-565-480-11	CONNECTOR, BOARD TO BOARD 4P				R010	1-249-709-11	CARBON	33K	5%	1/2W
* CN565	1-565-480-11	CONNECTOR, BOARD TO BOARD 4P				R011	1-249-679-11	CARBON	1.8K	5%	1/2W
	< DIODE >					R012	1-247-706-11	CARBON	330	5%	1/4W F
D001	8-719-987-63	DIODE	1N4148M			R013	1-249-460-11	CARBON	15K	5%	1/4W
D002	8-719-933-35	DIODE	HZS6A3L			△R014	1-249-526-11	CARBON	82	5%	1/4W
D501	8-719-987-63	DIODE	1N4148M			△R015	1-249-522-11	CARBON	56	5%	1/4W
D502	8-719-933-35	DIODE	HZS6A3L			R501	1-247-713-11	CARBON	1K	5%	1/4W F
D551	8-719-987-63	DIODE	1N4148M			R502	1-249-497-11	CARBON	33K	5%	1/4W
D552	8-719-933-35	DIODE	HZS6A3L			R503	1-247-711-11	CARBON	680	5%	1/4W F
	< DIODE >					△R504	1-247-704-11	CARBON	220	5%	1/4W F
	< DIODE >					△R505	1-247-704-11	CARBON	220	5%	1/4W F
	< DIODE >					R506	1-259-436-11	CARBON	2.2K	5%	1/6W
	< DIODE >					R507	1-259-452-11	CARBON	10K	5%	1/6W
	< DIODE >					R508	1-259-464-11	CARBON	33K	5%	1/6W
	< DIODE >					R509	1-259-460-11	CARBON	22K	5%	1/6W
	< DIODE >					R510	1-249-709-11	CARBON	33K	5%	1/2W

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

AMP-A**AMP-S**

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark	
R511	1-249-679-11	CARBON	1.8K	5%	1/2W		C702	1-162-286-31	CERAMIC	220PF	10%	50V
R512	1-247-706-11	CARBON	330	5%	1/4W	F	C703	1-162-286-31	CERAMIC	220PF	10%	50V
R513	1-249-460-11	CARBON	15K	5%	1/4W		C704	1-124-443-00	ELECT	100uF	20%	10V
△R514	1-249-526-11	CARBON	82	5%	1/4W		C705	1-124-916-11	ELECT	22uF	20%	63V
△R515	1-249-522-11	CARBON	56	5%	1/4W		C706	1-124-122-11	ELECT	100uF	20%	50V
R551	1-247-713-11	CARBON	1K	5%	1/4W	F	C707	1-124-910-11	ELECT	47uF	20%	50V
R552	1-249-497-11	CARBON	33K	5%	1/4W		C708	1-136-165-00	FILM	0.1uF	5%	50V
R553	1-247-711-11	CARBON	680	5%	1/4W	F	C709	1-136-163-00	FILM	0.068uF	5%	50V
△R554	1-247-704-11	CARBON	220	5%	1/4W	F	C710	1-136-163-00	FILM	0.068uF	5%	50V
△R555	1-247-704-11	CARBON	220	5%	1/4W	F	C711	1-162-191-31	CERAMIC	2.2PF	10%	50V
R556	1-259-436-11	CARBON	2.2K	5%	1/6W		C712	1-164-091-11	CERAMIC	0.0022uF	10%	50V
R557	1-259-452-11	CARBON	10K	5%	1/6W		C712	1-164-093-11	CERAMIC	0.0047uF	10%	25V (G)
R558	1-259-464-11	CARBON	33K	5%	1/6W		C713	1-136-161-00	FILM	0.047uF	5%	50V (G)
R559	1-259-460-11	CARBON	22K	5%	1/6W		C751	1-124-907-11	ELECT	10uF	20%	50V
R560	1-249-709-11	CARBON	33K	5%	1/2W		C752	1-162-286-31	CERAMIC	220PF	10%	50V
R561	1-249-679-11	CARBON	1.8K	5%	1/2W		C753	1-162-286-31	CERAMIC	220PF	10%	50V
R562	1-247-706-11	CARBON	330	5%	1/4W	F	C754	1-124-443-00	ELECT	100uF	20%	10V
R563	1-249-460-11	CARBON	15K	5%	1/4W		C755	1-124-916-11	ELECT	22uF	20%	63V
△R564	1-249-526-11	CARBON	82	5%	1/4W		C756	1-124-916-11	ELECT	22uF	20%	63V
△R565	1-249-522-11	CARBON	56	5%	1/4W		C757	1-124-910-11	ELECT	47uF	20%	50V

*	A-4371-606-A	AMP-S BOARD, COMPLETE (AEP1, E)	*****				C758	1-136-165-00	FILM	0.1uF	5%	50V
*	A-4371-608-A	AMP-S BOARD, COMPLETE (AEP2)	*****				C759	1-136-163-00	FILM	0.068uF	5%	50V
*	A-4371-613-A	AMP-S BOARD, COMPLETE (G)	*****				C760	1-136-163-00	FILM	0.068uF	5%	50V
< CAPACITOR >												
C010	1-136-163-00	FILM	0.068uF	5%	50V		C761	1-162-191-31	CERAMIC	2.2PF	10%	50V
C011	1-136-163-00	FILM	0.068uF	5%	50V		C762	1-164-091-11	CERAMIC	0.0022uF	10%	50V
C012	1-164-091-11	CERAMIC	0.0022uF	10%	50V							
C012	1-164-093-11	CERAMIC	0.0047uF	10%	25V (G)							
C017	1-136-153-00	FILM	0.01uF	5%	50V (G)							
C510	1-136-163-00	FILM	0.068uF	5%	50V							
C511	1-136-163-00	FILM	0.068uF	5%	50V							
C512	1-136-165-00	FILM	0.1uF	5%	50V							
C513	1-124-471-00	ELECT	1000uF	20%	6.3V							
C514	1-164-091-11	CERAMIC	0.0022uF	10%	50V							
C514	1-164-093-11	CERAMIC	0.0047uF	10%	25V (G)							
C517	1-136-153-00	FILM	0.01uF	5%	50V (G)							
C560	1-136-163-00	FILM	0.068uF	5%	50V							
C561	1-136-163-00	FILM	0.068uF	5%	50V							
C564	1-164-091-11	CERAMIC	0.0022uF	10%	50V							
C564	1-164-093-11	CERAMIC	0.0047uF	10%	25V (G)							
C567	1-136-153-00	FILM	0.01uF	5%	50V (G)							
C701	1-124-907-11	ELECT	10uF	20%	50V							
< CONNECTOR >												
*	CN501	1-564-243-11	PIN, CONNECTOR	6P								
	CN502	1-691-766-21	PLUG (MICRO CONNECTOR)	4P								
	CN504	1-691-770-11	PLUG (MICRO CONNECTOR)	8P								
*	CN505	1-564-241-00	PIN, CONNECTOR (B4P-VH)	4P								
	CN506	1-766-258-11	CONNECTOR	8P								
	CN507	1-766-258-11	CONNECTOR	8P								
	CN508	1-766-258-11	CONNECTOR	8P								
	CN701	1-691-765-11	PLUG (MICRO CONNECTOR)	3P								
< DIODE >												
	D504	8-719-987-63	DIODE	1N4148M								
	D505	8-719-987-63	DIODE	1N4148M								
	D506	8-719-987-63	DIODE	1N4148M								
	D507	8-719-987-63	DIODE	1N4148M								
	D508	8-719-987-63	DIODE	1N4148M								
	D509	8-719-987-63	DIODE	1N4148M								
	D510	8-719-987-63	DIODE	1N4148M								
	D512	8-719-987-63	DIODE	1N4148M								
	D514	8-719-200-02	DIODE	10E2								
	D515	8-719-987-63	DIODE	1N4148M								

The components identified by mark **△** or dotted line with mark **△** are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
D517	8-719-987-63	DIODE	1N4148M	R535	1-249-437-11	CARBON	47K 5% 1/4W
D701	8-719-987-63	DIODE	1N4148M	R536	1-249-437-11	CARBON	47K 5% 1/4W
D702	8-719-987-63	DIODE	1N4148M	R537	1-249-436-11	CARBON	39K 5% 1/4W
D751	8-719-987-63	DIODE	1N4148M	R538	1-249-429-11	CARBON	10K 5% 1/4W
				R539	1-249-437-11	CARBON	47K 5% 1/4W
			< IC >				
IC701	8-749-941-52	IC	STK-4152II	R540	1-249-417-11	CARBON	1K 5% 1/4W F
				R542	1-249-421-11	CARBON	2.2K 5% 1/4W F
			< COIL >	R543	1-249-421-11	CARBON	2.2K 5% 1/4W F
* L001	1-420-872-00	COIL, AIR-CORE	1.9uH	R545	1-249-482-11	CARBON	4.7 5% 1/2W F (G)
* L501	1-420-872-00	COIL, AIR-CORE	1.9uH	R579	1-247-727-11	CARBON	10 5% 1/2W (AEP1, AEP2, E)
* L551	1-420-872-00	COIL, AIR-CORE	1.9uH				
* L701	1-420-872-00	COIL, AIR-CORE	1.9uH	R579	1-247-731-11	CARBON	22 5% 1/2W (G)
* L751	1-420-872-00	COIL, AIR-CORE	1.9uH	R580	1-247-727-11	CARBON	10 5% 1/2W
			< TRANSISTOR >	R581	1-249-438-11	CARBON	56K 5% 1/4W
Q514	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA	R582	1-249-425-11	CARBON	4.7K 5% 1/4W F
Q515	8-729-620-05	TRANSISTOR	2SC2603-EF	R583	1-249-425-11	CARBON	4.7K 5% 1/4W F
Q516	8-729-620-05	TRANSISTOR	2SC2603-EF	R584	1-249-437-11	CARBON	47K 5% 1/4W
Q517	8-729-620-05	TRANSISTOR	2SC2603-EF	R592	1-249-421-11	CARBON	2.2K 5% 1/4W F
Q518	8-729-620-05	TRANSISTOR	2SC2603-EF	R595	1-249-482-11	CARBON	4.7 5% 1/2W F (G)
Q519	8-729-620-05	TRANSISTOR	2SC2603-EF	R701	1-249-438-11	CARBON	56K 5% 1/4W
Q520	8-729-620-05	TRANSISTOR	2SC2603-EF	R702	1-249-417-11	CARBON	1K 5% 1/4W F
Q701	8-729-140-82	TRANSISTOR	2SA988-PAFAEA	R703	1-249-411-11	CARBON	330 5% 1/4W
Q751	8-729-140-82	TRANSISTOR	2SA988-PAFAEA	R704	1-249-438-11	CARBON	56K 5% 1/4W
			< RESISTOR >	▲R705	1-247-700-11	CARBON	100 5% 1/4W F
R029	1-247-727-11	CARBON	10 5% 1/2W (AEP1, AEP2, E)	R706	1-249-421-11	CARBON	2.2K 5% 1/4W F
R029	1-247-731-11	CARBON	22 5% 1/2W (G)	R707	1-247-756-11	CARBON	2.2K 5% 1/2W
R030	1-247-727-11	CARBON	10 5% 1/2W	▲R708	1-247-700-11	CARBON	100 5% 1/4W F
R031	1-249-438-11	CARBON	56K 5% 1/4W	R709	1-247-752-11	CARBON	1K 5% 1/2W
R032	1-247-745-11	CARBON	330 5% 1/2W F (AEP1, G, E)	R710	1-247-752-11	CARBON	1K 5% 1/2W
R032	1-247-747-11	CARBON	470 5% 1/2W (AEP2)	R711	1-249-431-11	CARBON	15K 5% 1/4W
R033	1-249-425-11	CARBON	4.7K 5% 1/4W F	R712	1-249-417-11	CARBON	1K 5% 1/4W F
R034	1-249-421-11	CARBON	2.2K 5% 1/4W F	R713	1-217-151-00	RES, METAL PLATE	0.22 2W
R035	1-249-421-11	CARBON	2.2K 5% 1/4W F	R714	1-249-438-11	CARBON	56K 5% 1/4W
R036	1-249-421-11	CARBON	2.2K 5% 1/4W F	R715	1-247-727-11	CARBON	10 5% 1/2W (AEP1, AEP2, E)
R037	1-249-437-11	CARBON	47K 5% 1/4W	R717	1-247-747-11	CARBON	470 5% 1/2W (AEP2)
R045	1-249-482-11	CARBON	4.7 5% 1/2W F (G)	▲R718	1-249-389-11	CARBON	4.7 5% 1/4W F (G)
R529	1-247-727-11	CARBON	10 5% 1/2W (AEP1, AEP2, E)	R751	1-249-438-11	CARBON	56K 5% 1/4W
R529	1-247-731-11	CARBON	22 5% 1/2W (G)	R752	1-249-417-11	CARBON	1K 5% 1/4W F
R530	1-247-727-11	CARBON	10 5% 1/2W	R753	1-249-411-11	CARBON	330 5% 1/4W
R531	1-249-438-11	CARBON	56K 5% 1/4W	R754	1-249-438-11	CARBON	56K 5% 1/4W
R532	1-247-745-11	CARBON	330 5% 1/2W F (AEP1, G, E)	R756	1-249-421-11	CARBON	2.2K 5% 1/4W F
R532	1-247-747-11	CARBON	470 5% 1/2W (AEP2)	R757	1-247-756-11	CARBON	2.2K 5% 1/2W
R533	1-249-418-11	CARBON	1.2K 5% 1/4W F	R761	1-249-431-11	CARBON	15K 5% 1/4W
R534	1-249-425-11	CARBON	4.7K 5% 1/4W F	R762	1-249-417-11	CARBON	1K 5% 1/4W F
				R763	1-217-151-00	RES, METAL PLATE	0.22 2W
				R764	1-249-437-11	CARBON	47K 5% 1/4W

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AMP-S	CN-AC	CN-M	CN-S	CN-V	DSP
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Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R765	1-247-727-11	CARBON	10	5%	1/2W (AEP1, AEP2, E)	*	1-652-501-11	CN-S BOARD (E)	*****		
R765	1-247-731-11	CARBON	22	5%	1/2W (G)	*	1-653-797-11	CN-S BOARD (AEP1, AEP2, G)	*****		
R766	1-247-727-11	CARBON	10	5%	1/2W						
△R768	1-249-389-11	CARBON	4.7	5%	1/4W F (G)						
< RELAY >											
RY001	1-515-533-11	RELAY									
RY501	1-515-533-11	RELAY									
RY503	1-515-727-11	RELAY									
RY504	1-515-727-11	RELAY									
RY701	1-515-533-11	RELAY									
< TERMINAL >											
* TM501	1-537-699-11	TERMINAL BOARD (SP)									
		(FRONT/CENTER SPEAKERS)									
TM501	1-537-766-11	TERMINAL BOARD (SP)									
		(FRONT/CENTER SPEAKERS)									
* TM701	1-537-616-11	TERMINAL BOARD (SP) (REAR SPEAKERS)									
		(AEP1, G, E)									
TM701	1-537-767-11	TERMINAL BOARD (SP) (REAR SPEAKERS)									
		(AEP2)									

* 1-652-497-11	CN-AC BOARD (AEP1, AEP2, G)				*****						
< CONNECTOR >											
* CN1	1-564-321-21	PIN, CONNECTOR 2P									

* 1-652-496-11	CN-M BOARD				*****						
< CAPACITOR >											
C670	1-136-165-00	FILM	0.1uF	5%	50V	C203	1-126-059-11	ELECT	10uF	20%	50V
						C204	1-136-153-00	FILM	0.01uF	5%	50V
						C205	1-136-153-00	FILM	0.01uF	5%	50V
						C206	1-164-159-11	CERAMIC	0.1uF	50V	
						C207	1-164-159-11	CERAMIC	0.1uF	50V	
< CONNECTOR >											
CN670	1-564-505-11	PLUG, CONNECTOR 2P				C208	1-164-159-11	CERAMIC	0.1uF	50V	
* CN671	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P				C209	1-164-159-11	CERAMIC	0.1uF	50V	
						C210	1-164-159-11	CERAMIC	0.1uF	50V	
< DIODE >											
D623	8-719-200-02	DIODE	10E2			C211	1-110-337-51	MYLAR	150PF	5%	50V
D624	8-719-200-02	DIODE	10E2			C212	1-101-884-00	CERAMIC	56PF	5%	50V
D625	8-719-200-02	DIODE	10E2			C213	1-101-884-00	CERAMIC	56PF	5%	50V
D626	8-719-200-02	DIODE	10E2			C214	1-130-479-00	MYLAR	0.0047uF	5%	50V
						C215	1-130-472-00	MYLAR	0.0012uF	5%	50V
						C216	1-126-049-11	ELECT	22uF	20%	25V
						C221	1-110-337-51	MYLAR	150PF	5%	50V

						C222	1-101-884-00	CERAMIC	56PF	5%	50V
						C223	1-101-884-00	CERAMIC	56PF	5%	50V

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Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description		Remark		
C224	1-130-479-00	MYLAR	0.0047uF	5%	50V	C318	1-164-159-11	CERAMIC	0.1uF	50V	
C225	1-130-472-00	MYLAR	0.0012uF	5%	50V	C319	1-164-159-11	CERAMIC	0.1uF	50V	
C226	1-126-049-11	ELECT	22uF	20%	25V	C320	1-164-159-11	CERAMIC	0.1uF	50V	
C231	1-126-059-11	ELECT	10uF	20%	50V	C321	1-136-173-00	FILM	0.47uF	5%	50V
C232	1-130-479-00	MYLAR	0.0047uF	5%	50V	C322	1-126-023-11	ELECT	100uF	20%	16V
C233	1-130-475-00	MYLAR	0.0022uF	5%	50V	C323	1-164-159-11	CERAMIC	0.1uF	50V	
C234	1-126-049-11	ELECT	22uF	20%	25V	C325	1-164-159-11	CERAMIC	0.1uF	50V	
C235	1-164-159-11	CERAMIC	0.1uF		50V	C326	1-162-306-11	CERAMIC	0.01uF	20%	16V
C236	1-164-159-11	CERAMIC	0.1uF		50V	C328	1-162-199-31	CERAMIC	10PF	5%	50V
C237	1-164-159-11	CERAMIC	0.1uF		50V	C329	1-126-049-11	ELECT	22uF	20%	25V
C253	1-126-059-11	ELECT	10uF	20%	50V	C330	1-162-211-31	CERAMIC	33PF	5%	50V
C254	1-136-153-00	FILM	0.01uF	5%	50V	C331	1-162-199-31	CERAMIC	10PF	5%	50V
C255	1-136-153-00	FILM	0.01uF	5%	50V	C332	1-164-159-11	CERAMIC	0.1uF		50V
C256	1-124-995-11	ELECT	220uF	20%	10V	C333	1-126-023-11	ELECT	100uF	20%	16V
C257	1-124-995-11	ELECT	220uF	20%	10V	C334	1-161-494-00	CERAMIC	0.022uF		25V
C258	1-126-049-11	ELECT	22uF	20%	25V	C335	1-162-294-31	CERAMIC	0.001uF	10%	50V
C259	1-126-022-11	ELECT	47uF	20%	25V	C337	1-164-159-11	CERAMIC	0.1uF		50V
C260	1-126-049-11	ELECT	22uF	20%	25V	C338	1-162-199-31	CERAMIC	10PF	5%	50V
C261	1-110-337-51	MYLAR	150PF	5%	50V	C339	1-164-159-11	CERAMIC	0.1uF		50V
C262	1-101-884-00	CERAMIC	56PF	5%	50V	C340	1-164-159-11	CERAMIC	0.1uF		50V
C263	1-101-884-00	CERAMIC	56PF	5%	50V	C341	1-124-995-11	ELECT	220uF	20%	10V
C264	1-130-479-00	MYLAR	0.0047uF	5%	50V	C342	1-164-159-11	CERAMIC	0.1uF		50V
C265	1-130-472-00	MYLAR	0.0012uF	5%	50V	C343	1-126-023-11	ELECT	100uF	20%	16V
C266	1-126-049-11	ELECT	22uF	20%	25V	C344	1-164-159-11	CERAMIC	0.1uF		50V
C271	1-110-337-51	MYLAR	150PF	5%	50V	C345	1-164-159-11	CERAMIC	0.1uF		50V
C272	1-101-884-00	CERAMIC	56PF	5%	50V	C347	1-164-159-11	CERAMIC	0.1uF		50V
C273	1-101-884-00	CERAMIC	56PF	5%	50V	C348	1-126-023-11	ELECT	100uF	20%	16V
C274	1-130-479-00	MYLAR	0.0047uF	5%	50V	C349	1-164-159-11	CERAMIC	0.1uF		50V
C275	1-130-472-00	MYLAR	0.0012uF	5%	50V	C351	1-126-022-11	ELECT	47uF	20%	25V
C276	1-126-049-11	ELECT	22uF	20%	25V	C353	1-164-159-11	CERAMIC	0.1uF		50V
C281	1-126-059-11	ELECT	10uF	20%	50V	C355	1-164-159-11	CERAMIC	0.1uF		50V
C282	1-130-479-00	MYLAR	0.0047uF	5%	50V	C360	1-164-159-11	CERAMIC	0.1uF		50V
C283	1-130-475-00	MYLAR	0.0022uF	5%	50V	C361	1-164-159-11	CERAMIC	0.1uF		50V
C284	1-126-049-11	ELECT	22uF	20%	25V	C362	1-126-023-11	ELECT	100uF	20%	16V
C285	1-126-059-11	ELECT	10uF	20%	50V	C363	1-126-023-11	ELECT	100uF	20%	16V
C286	1-164-159-11	CERAMIC	0.1uF		50V	C364	1-164-159-11	CERAMIC	0.1uF		50V
C287	1-164-159-11	CERAMIC	0.1uF		50V	C365	1-164-159-11	CERAMIC	0.1uF		50V
C301	1-164-159-11	CERAMIC	0.1uF		50V	C390	1-164-159-11	CERAMIC	0.1uF		50V
C302	1-164-159-11	CERAMIC	0.1uF		50V	C392	1-164-159-11	CERAMIC	0.1uF		50V
C303	1-164-159-11	CERAMIC	0.1uF		50V	C393	1-126-023-11	ELECT	100uF	20%	16V
C305	1-164-159-11	CERAMIC	0.1uF		50V	C394	1-126-023-11	ELECT	100uF	20%	16V
C306	1-164-159-11	CERAMIC	0.1uF		50V	C395	1-164-159-11	CERAMIC	0.1uF		50V
C307	1-164-159-11	CERAMIC	0.1uF		50V	C396	1-124-995-11	ELECT	220uF	20%	10V
C310	1-162-207-31	CERAMIC	22PF	5%	50V	C397	1-164-159-11	CERAMIC	0.1uF		50V
C311	1-162-207-31	CERAMIC	22PF	5%	50V	C398	1-126-023-11	ELECT	100uF	20%	16V
C312	1-162-294-31	CERAMIC	0.001uF	10%	50V	C399	1-126-023-11	ELECT	100uF	20%	16V
C313	1-164-159-11	CERAMIC	0.1uF		50V		< CONNECTOR >				
C314	1-162-306-11	CERAMIC	0.01uF	20%	16V		< CONNECTOR >				
C316	1-164-159-11	CERAMIC	0.1uF		50V		< CONNECTOR >				
C317	1-126-023-11	ELECT	100uF	20%	16V		< CONNECTOR >				

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
CNE202	1-691-771-11	PLUG (MICRO CONNECTOR) 9P		L312	1-409-644-11	COIL (RF)	
		< DIODE >		L313	1-409-644-11	COIL (RF)	
D301	8-719-987-63	DIODE 1N4148M		L314	1-410-324-11	INDUCTOR 4.7uH	
D302	8-719-987-63	DIODE 1N4148M		L320	1-410-324-11	INDUCTOR 4.7uH	
D304	8-719-901-59	DIODE KV1320					< TRANSISTOR >
D305	8-719-903-27	DIODE 1SS168		Q201	8-729-141-30	TRANSISTOR 2SC3623A-LK	
		< FERRITE BEAD >		Q202	8-729-141-30	TRANSISTOR 2SC3623A-LK	
FB301	1-410-397-21	FERRITE BEAD INDUCTOR		Q203	8-729-141-30	TRANSISTOR 2SC3623A-LK	
FB302	1-410-397-21	FERRITE BEAD INDUCTOR		Q204	8-729-141-30	TRANSISTOR 2SC3623A-LK	
		< IC >		Q205	8-729-141-30	TRANSISTOR 2SC3623A-LK	
IC201	8-759-710-59	IC NJM4580D-D		Q251	8-729-141-30	TRANSISTOR 2SC3623A-LK	
IC202	8-759-191-20	IC AK5369VP		Q252	8-729-141-30	TRANSISTOR 2SC3623A-LK	
IC204	8-759-708-05	IC NJM78L05A		Q253	8-729-141-30	TRANSISTOR 2SC3623A-LK	
IC205	8-759-700-65	IC NJM79L05A		Q254	8-729-141-30	TRANSISTOR 2SC3623A-LK	
IC206	8-759-708-05	IC NJM78L05A		Q255	8-729-141-30	TRANSISTOR 2SC3623A-LK	
IC210	8-752-359-50	IC CXD2564AM		Q303	8-729-200-56	TRANSISTOR 2SK241-GR	
IC211	8-759-710-59	IC NJM4580D-D		Q304	8-729-200-56	TRANSISTOR 2SK241-GR	
IC220	8-752-359-50	IC CXD2564AM		Q305	8-729-900-61	TRANSISTOR DTA114ES	
IC221	8-759-710-59	IC NJM4580D-D					< RESISTOR >
IC230	8-759-185-28	IC PCM1710U-AT1		R202	1-259-476-11	CARBON 100K 5% 1/6W	
IC231	8-759-710-59	IC NJM4580D-D		R205	1-259-404-11	CARBON 100 5% 1/6W	
IC261	8-759-710-59	IC NJM4580D-D		R206	1-259-396-11	CARBON 47 5% 1/6W	
IC271	8-759-710-59	IC NJM4580D-D		R207	1-259-464-11	CARBON 33K 5% 1/6W	
IC305	8-759-267-43	IC LC8902		R208	1-259-464-11	CARBON 33K 5% 1/6W	
IC307	8-759-075-34	IC LC83015		R209	1-259-380-11	CARBON 10 5% 1/6W	
IC308	8-759-165-17	IC MT4C4256-8A		R210	1-249-461-11	CARBON 18K 5% 1/4W	
IC310	8-759-250-81	IC TC5081AP		R211	1-249-461-11	CARBON 18K 5% 1/4W	
IC311	8-759-917-11	IC SN74HC393AN		R212	1-247-152-00	CARBON 8.2K 5% 1/4W	
IC312	8-759-917-18	IC SN74HCU04AN		R213	1-247-152-00	CARBON 8.2K 5% 1/4W	
IC313	8-759-708-08	IC NJM78L08A		R214	1-249-465-11	CARBON 47K 5% 1/4W	
		< JACK >		R215	1-249-465-11	CARBON 47K 5% 1/4W	
IC301	8-749-921-11	IC GP1F32R (OPTICAL 1 IN)		R216	1-249-556-11	CARBON 1.5K 5% 1/4W	
IC302	8-749-921-11	IC GP1F32R (OPTICAL 2 IN)		R217	1-249-556-11	CARBON 1.5K 5% 1/4W	
IC303	8-749-921-11	IC GP1F32R (OPTICAL 3 IN)		R218	1-247-887-00	CARBON 220K 5% 1/4W	
IC353	8-749-921-12	IC GP1F32T (OPTICAL 3 OUT)		R219	1-247-708-11	CARBON 470 5% 1/4W F	
		< COIL >		R220	1-249-461-11	CARBON 18K 5% 1/4W	
L202	1-410-324-11	INDUCTOR 4.7uH		R221	1-249-461-11	CARBON 18K 5% 1/4W	
L301	1-410-324-11	INDUCTOR 4.7uH		R222	1-247-152-00	CARBON 8.2K 5% 1/4W	
L302	1-410-324-11	INDUCTOR 4.7uH		R223	1-247-152-00	CARBON 8.2K 5% 1/4W	
L303	1-410-324-11	INDUCTOR 4.7uH		R224	1-249-465-11	CARBON 47K 5% 1/4W	
L304	1-410-324-11	INDUCTOR 4.7uH		R225	1-249-465-11	CARBON 47K 5% 1/4W	
L305	1-410-324-11	INDUCTOR 4.7uH		R226	1-249-556-11	CARBON 1.5K 5% 1/4W	
L306	1-410-324-11	INDUCTOR 4.7uH		R227	1-249-556-11	CARBON 1.5K 5% 1/4W	
L308	1-410-324-11	INDUCTOR 4.7uH		R228	1-247-887-00	CARBON 220K 5% 1/4W	
L309	1-410-324-11	INDUCTOR 4.7uH		R229	1-247-708-11	CARBON 470 5% 1/4W F	
L310	1-410-324-11	INDUCTOR 4.7uH		R231	1-259-432-11	CARBON 1.5K 5% 1/6W	
				R232	1-259-432-11	CARBON 1.5K 5% 1/6W	
				R233	1-249-413-11	CARBON 470 5% 1/4W F	
				R234	1-247-887-00	CARBON 220K 5% 1/4W	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R240	1-247-708-11	CARBON	470 5% 1/4W F	R321	1-249-423-11	CARBON	3.3K 5% 1/4W F
R241	1-247-708-11	CARBON	470 5% 1/4W F	R322	1-249-417-11	CARBON	1K 5% 1/4W F
R252	1-259-476-11	CARBON	100K 5% 1/6W	R323	1-249-417-11	CARBON	1K 5% 1/4W F
R255	1-259-404-11	CARBON	100 5% 1/6W	R324	1-249-429-11	CARBON	10K 5% 1/4W
R256	1-259-396-11	CARBON	47 5% 1/6W	R325	1-259-476-11	CARBON	100K 5% 1/6W
R257	1-259-464-11	CARBON	33K 5% 1/6W	R326	1-247-903-00	CARBON	1M 5% 1/4W
R258	1-259-464-11	CARBON	33K 5% 1/6W	R327	1-249-429-11	CARBON	10K 5% 1/4W
R260	1-249-461-11	CARBON	18K 5% 1/4W	R328	1-249-428-11	CARBON	8.2K 5% 1/4W F
R261	1-249-461-11	CARBON	18K 5% 1/4W	R329	1-259-476-11	CARBON	100K 5% 1/6W
R262	1-247-152-00	CARBON	8.2K 5% 1/4W	R330	1-249-417-11	CARBON	1K 5% 1/4W F
R263	1-247-152-00	CARBON	8.2K 5% 1/4W	R331	1-249-417-11	CARBON	1K 5% 1/4W F
R264	1-249-465-11	CARBON	47K 5% 1/4W	R332	1-249-417-11	CARBON	1K 5% 1/4W F
R265	1-249-465-11	CARBON	47K 5% 1/4W	R333	1-259-404-11	CARBON	100 5% 1/6W
R266	1-249-556-11	CARBON	1.5K 5% 1/4W	R334	1-249-417-11	CARBON	1K 5% 1/4W F
R267	1-249-556-11	CARBON	1.5K 5% 1/4W	R335	1-247-903-00	CARBON	1M 5% 1/4W
R268	1-247-887-00	CARBON	220K 5% 1/4W	R336	1-247-903-00	CARBON	1M 5% 1/4W
R269	1-247-708-11	CARBON	470 5% 1/4W F	R337	1-247-887-00	CARBON	220K 5% 1/4W
R270	1-249-461-11	CARBON	18K 5% 1/4W	R340	1-259-388-11	CARBON	22 5% 1/6W
R271	1-249-461-11	CARBON	18K 5% 1/4W	R341	1-259-404-11	CARBON	100 5% 1/6W
R272	1-247-152-00	CARBON	8.2K 5% 1/4W	R342	1-259-388-11	CARBON	22 5% 1/6W
R273	1-247-152-00	CARBON	8.2K 5% 1/4W	R343	1-249-425-11	CARBON	4.7K 5% 1/4W F
R274	1-249-465-11	CARBON	47K 5% 1/4W	R344	1-249-425-11	CARBON	4.7K 5% 1/4W F
R275	1-249-465-11	CARBON	47K 5% 1/4W	R345	1-249-425-11	CARBON	4.7K 5% 1/4W F
R276	1-249-556-11	CARBON	1.5K 5% 1/4W	R346	1-249-425-11	CARBON	4.7K 5% 1/4W F
R277	1-249-556-11	CARBON	1.5K 5% 1/4W	R347	1-249-425-11	CARBON	4.7K 5% 1/4W F
R278	1-247-887-00	CARBON	220K 5% 1/4W	R353	1-249-413-11	CARBON	470 5% 1/4W F
R279	1-247-708-11	CARBON	470 5% 1/4W F	R354	1-249-413-11	CARBON	470 5% 1/4W F
R281	1-259-432-11	CARBON	1.5K 5% 1/6W	R357	1-249-413-11	CARBON	470 5% 1/4W F
R282	1-259-432-11	CARBON	1.5K 5% 1/6W	R358	1-249-417-11	CARBON	1K 5% 1/4W F
R283	1-249-413-11	CARBON	470 5% 1/4W F	R359	1-249-417-11	CARBON	1K 5% 1/4W F
R284	1-247-887-00	CARBON	220K 5% 1/4W	R361	1-259-396-11	CARBON	47 5% 1/6W
R290	1-247-708-11	CARBON	470 5% 1/4W F	R362	1-259-404-11	CARBON	100 5% 1/6W
R291	1-247-708-11	CARBON	470 5% 1/4W F	R363	1-259-404-11	CARBON	100 5% 1/6W
R301	1-249-413-11	CARBON	470 5% 1/4W F	R369	1-249-413-11	CARBON	470 5% 1/4W F
R302	1-249-413-11	CARBON	470 5% 1/4W F	R370	1-249-425-11	CARBON	4.7K 5% 1/4W F
R303	1-249-413-11	CARBON	470 5% 1/4W F	R371	1-249-413-11	CARBON	470 5% 1/4W F
R305	1-249-413-11	CARBON	470 5% 1/4W F	R372	1-249-425-11	CARBON	4.7K 5% 1/4W F
R306	1-249-413-11	CARBON	470 5% 1/4W F	R373	1-249-413-11	CARBON	470 5% 1/4W F
R307	1-249-413-11	CARBON	470 5% 1/4W F	R374	1-249-413-11	CARBON	470 5% 1/4W F
R308	1-249-413-11	CARBON	470 5% 1/4W F	R377	1-249-413-11	CARBON	470 5% 1/4W F
R310	1-259-404-11	CARBON	100 5% 1/6W	R379	1-249-413-11	CARBON	470 5% 1/4W F
R311	1-247-903-00	CARBON	1M 5% 1/4W	R380	1-249-413-11	CARBON	470 5% 1/4W F
R312	1-259-464-11	CARBON	33K 5% 1/6W	R381	1-249-413-11	CARBON	470 5% 1/4W F
R313	1-247-864-11	CARBON	24K 5% 1/4W	R382	1-249-413-11	CARBON	470 5% 1/4W F
R314	1-249-426-11	CARBON	5.6K 5% 1/4W	R383	1-249-413-11	CARBON	470 5% 1/4W F
R315	1-247-811-31	CARBON	150 5% 1/4W	R384	1-249-413-11	CARBON	470 5% 1/4W F
R316	1-249-426-11	CARBON	5.6K 5% 1/4W	R385	1-249-413-11	CARBON	470 5% 1/4W F
R318	1-259-464-11	CARBON	33K 5% 1/6W	R386	1-249-413-11	CARBON	470 5% 1/4W F
R319	1-249-437-11	CARBON	47K 5% 1/4W	R387	1-249-413-11	CARBON	470 5% 1/4W F
R320	1-249-423-11	CARBON	3.3K 5% 1/4W F	R388	1-249-413-11	CARBON	470 5% 1/4W F

DSP **H.P** **KEY** **MAIN**

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
R389	1-249-413-11	CARBON	470	5%	1/4W	F	*	A-4371-605-A	MAIN BOARD, COMPLETE (AEP1, E)	*****	*****	*****	
R390	1-259-388-11	CARBON	22	5%	1/6W								
R391	1-259-404-11	CARBON	100	5%	1/6W		*	A-4371-609-A	MAIN BOARD, COMPLETE (G)	*****	*****	*****	
R392	1-259-388-11	CARBON	22	5%	1/6W								
R393	1-249-425-11	CARBON	4.7K	5%	1/4W	F							
R394	1-249-425-11	CARBON	4.7K	5%	1/4W	F	*	A-4371-790-A	MAIN BOARD, COMPLETE (AEP2)	*****	*****	*****	
R395	1-249-425-11	CARBON	4.7K	5%	1/4W	F							
R396	1-249-425-11	CARBON	4.7K	5%	1/4W	F							
R397	1-249-425-11	CARBON	4.7K	5%	1/4W	F	*	4-880-403-11	HEAT SINK				
								4-969-003-01	SPACER (DIA. 34)				
								7-682-547-09	SCREW +BVT 3X6 (S)				
		< VIBRATOR >											
X301	1-567-970-11	VIBRATOR, CRYSTAL (24.576 MHz)							< CAPACITOR >				

*	1-652-511-11	H. P BOARD					C008	1-126-051-11	ELECT	47uF	20%	50V	
		*****					C009	1-136-165-00	FILM	0.1uF	5%	50V	
							C100	1-162-284-31	CERAMIC	150PF	10%	50V (G)	
							C101	1-110-335-11	MYLAR	100PF	5%	50V	
							C102	1-126-059-11	ELECT	10uF	20%	50V	
		< CONNECTOR >											
CN503	1-691-766-21	PLUG (MICRO CONNECTOR) 4P					C103	1-162-282-31	CERAMIC	100PF	10%	50V	
							C104	1-126-022-11	ELECT	47uF	20%	16V	
		< JACK >					C105	1-130-480-00	MYLAR	0.0056uF	5%	50V	
J501	1-507-796-71	JACK (HEADPHONES)					C106	1-104-842-91	MYLAR	0.0016uF	5%	50V	
							C107	1-126-043-11	ELECT	0.47uF	20%	50V	
		< RESISTOR >											
R541	1-247-749-11	CARBON	560	5%	1/2W	F	C108	1-126-022-11	ELECT	47uF	20%	16V	
R591	1-247-749-11	CARBON	560	5%	1/2W	F	C109	1-162-284-31	CERAMIC	150PF	10%	50V (G)	
							C110	1-162-284-31	CERAMIC	150PF	10%	50V (G)	
							C111	1-162-284-31	CERAMIC	150PF	10%	50V (G)	
							C112	1-162-284-31	CERAMIC	150PF	10%	50V (G)	
		< SWITCH >											
S501	1-570-272-11	SWITCH, PUSH (1 KEY) (SPEAKERS ON/OFF)					C113	1-162-284-31	CERAMIC	150PF	10%	50V (G)	
							C114	1-162-284-31	CERAMIC	150PF	10%	50V (G)	
							C115	1-162-284-31	CERAMIC	150PF	10%	50V (G)	
							C116	1-162-284-31	CERAMIC	150PF	10%	50V (G)	
							C117	1-162-284-31	CERAMIC	150PF	10%	50V (G)	
*	1-652-505-11	KEY BOARD					C118	1-162-284-31	CERAMIC	150PF	10%	50V (G)	
		*****					C119	1-162-284-31	CERAMIC	150PF	10%	50V (G)	
							C120	1-162-284-31	CERAMIC	150PF	10%	50V (G)	
		< CONNECTOR >					C121	1-162-284-31	CERAMIC	150PF	10%	50V (G)	
CN803	1-562-087-00	SOCKET, CONNECTOR 4P					C122	1-126-022-11	ELECT	47uF	20%	16V	
		< SWITCH >											
S802	1-554-303-21	SWITCH, TACTILE (MIX)					C123	1-136-153-00	FILM	0.01uF	5%	50V	
S804	1-554-303-21	SWITCH, TACTILE (VIDEO SELECT)					C124	1-162-284-31	CERAMIC	150PF	10%	50V (G)	
S805	1-554-303-21	SWITCH, TACTILE (AUDIO SELECT)					C125	1-162-284-31	CERAMIC	150PF	10%	50V (G)	
S807	1-554-303-21	SWITCH, TACTILE (SURROUND MODE)					C126	1-110-335-11	MYLAR	100PF	5%	50V	
S808	1-554-303-21	SWITCH, TACTILE (SURROUND ON/OFF)					C127	1-126-059-11	ELECT	10uF	20%	50V	
S809	1-554-303-21	SWITCH, TACTILE (CENTER MODE)					C128	1-162-282-31	CERAMIC	100PF	10%	50V	
S810	1-554-303-21	SWITCH, TACTILE (SOURCE DIRECT)					C129	1-162-284-31	CERAMIC	47uF	20%	16V	
S811	1-554-303-21	SWITCH, TACTILE (REC OUT)					C130	1-130-480-00	MYLAR	0.0056uF	5%	50V	
							C131	1-104-842-91	MYLAR	0.0016uF	5%	50V	
							C132	1-126-043-11	ELECT	0.47uF	20%	50V	
		< SWITCH >											
							C133	1-162-284-31	CERAMIC	150PF	10%	50V (G)	
							C134	1-126-022-11	ELECT	47uF	20%	16V	
							C135	1-162-284-31	CERAMIC	150PF	10%	50V (G)	
							C136	1-110-335-11	MYLAR	100PF	5%	50V	
							C137	1-126-059-11	ELECT	10uF	20%	50V	
		< SWITCH >											
							C138	1-162-284-31	CERAMIC	150PF	10%	50V (G)	
							C139	1-162-284-31	CERAMIC	150PF	10%	50V (G)	
							C140	1-162-284-31	CERAMIC	150PF	10%	50V (G)	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C161	1-162-284-31 CERAMIC	150PF	10%	50V (G)	CN103	1-691-765-31 PLUG (MICRO CONNECTOR) 3P	
C162	1-162-284-31 CERAMIC	150PF	10%	50V (G)	* CN551	1-564-243-11 PIN, CONNECTOR 6P	
					* CN552	1-508-696-00 CONNECTOR PIN 4P	
C163	1-162-284-31 CERAMIC	150PF	10%	50V (G)	* CN553	1-508-696-00 CONNECTOR PIN 4P	
C164	1-162-284-31 CERAMIC	150PF	10%	50V (G)	* CN554	1-508-696-00 CONNECTOR PIN 4P	
C165	1-162-284-31 CERAMIC	150PF	10%	50V (G)	* CN555	1-508-696-00 CONNECTOR PIN 4P	
C166	1-162-284-31 CERAMIC	150PF	10%	50V (G)	* CN556	1-508-809-00 BASE POST (14MM) 2P	
C167	1-162-284-31 CERAMIC	150PF	10%	50V (G)	* CN557	1-508-809-00 BASE POST (14MM) 2P	
C168	1-162-284-31 CERAMIC	150PF	10%	50V (G)	* CN558	1-508-809-00 BASE POST (14MM) 2P	
C169	1-162-284-31 CERAMIC	150PF	10%	50V (G)	* CN601	1-568-844-11 SOCKET, CONNECTOR 29P	
C170	1-162-284-31 CERAMIC	150PF	10%	50V (G)	* CN602	1-568-834-11 SOCKET, CONNECTOR 15P	
C171	1-162-284-31 CERAMIC	150PF	10%	50V (G)	CN603	1-691-161-11 PIN, CONNECTOR 4P	
C176	1-126-022-11 ELECT	47uF	20%	16V	CN604	1-564-505-11 PLUG, CONNECTOR 2P	
C179	1-162-284-31 CERAMIC	150PF	10%	50V (G)	CN605	1-691-766-11 PLUG (MICRO CONNECTOR) 4P	
C508	1-126-051-11 ELECT	47uF	20%	50V	* CN606	1-564-104-00 PIN, CONNECTOR (B3P-VH) 3P	
C509	1-136-165-00 FILM	0.1uF	5%	50V	* CN607	1-564-242-00 PIN, CONNECTOR 5P	
C558	1-126-051-11 ELECT	47uF	20%	50V	* CN608	1-564-241-00 PIN, CONNECTOR (B4P-VH) 4P	
C519	1-162-284-31 CERAMIC	150PF	10%	50V (G)	CN609	1-691-770-11 PLUG (MICRO CONNECTOR) 8P	
C520	1-162-284-31 CERAMIC	150PF	10%	50V (G)	CN610	1-691-171-11 PIN, CONNECTOR 14P	
C559	1-136-165-00 FILM	0.1uF	5%	50V	CN611	1-691-165-11 PIN, CONNECTOR 8P	
C602	1-106-220-00 MYLAR	0.1uF	5%	100V	CN612	1-691-765-11 PLUG (MICRO CONNECTOR) 3P	
C603	1-106-220-00 MYLAR	0.1uF	5%	100V	CN613	1-564-320-00 PIN, CONNECTOR (B2P-VH) 2P	
C604	1-107-416-11 ELECT	10000uF	20%	63V	CN614	1-691-767-11 PLUG (MICRO CONNECTOR) 5P	
C605	1-107-416-11 ELECT	10000uF	20%	63V	CN615	1-691-767-11 PLUG (MICRO CONNECTOR) 5P	
C606	1-126-067-11 ELECT	1000uF	20%	63V			
C607	1-126-067-11 ELECT	1000uF	20%	63V			
C608	1-136-153-00 FILM	0.01uF	5%	50V			
C609	1-136-153-00 FILM	0.01uF	5%	50V			
C610	1-136-153-00 FILM	0.01uF	5%	50V	D003	8-719-987-63 DIODE	1N4148M
C611	1-136-153-00 FILM	0.01uF	5%	50V	D503	8-719-987-63 DIODE	1N4148M
C612	1-126-015-11 ELECT	3300uF	20%	16V	D553	8-719-987-63 DIODE	1N4148M
C613	1-126-012-11 ELECT	470uF	20%	16V	D601	8-719-302-38 DIODE	RBV-602-01
C614	1-126-029-51 ELECT	3300uF	20%	25V	D602	8-719-302-38 DIODE	RBV-602-01 (AEP1, G, E)
C615	1-126-027-11 ELECT	1000uF	20%	25V	D603	8-719-200-02 DIODE	10E2
C616	1-126-012-11 ELECT	470uF	20%	16V	D604	8-719-200-02 DIODE	10E2
C617	1-126-012-11 ELECT	470uF	20%	16V	D605	8-719-911-55 DIODE	U05G
C618	1-126-012-11 ELECT	470uF	20%	16V	D606	8-719-911-55 DIODE	U05G
C619	1-126-012-11 ELECT	470uF	20%	16V	D607	8-719-911-55 DIODE	U05G
C620	1-106-220-00 MYLAR	0.1uF	5%	100V	D608	8-719-911-55 DIODE	U05G
C621	1-106-220-00 MYLAR	0.1uF	5%	100V	D609	8-719-911-55 DIODE	U05G
C622	1-126-975-11 ELECT	4700uF	20%	42V	D610	8-719-911-55 DIODE	U05G
C623	1-126-975-11 ELECT	4700uF	20%	42V	D611	8-719-911-55 DIODE	U05G
C624	1-126-051-11 ELECT	47uF	20%	50V	D612	8-719-911-55 DIODE	U05G
C625	1-126-062-11 ELECT	47uF	20%	63V	D613	8-719-302-38 DIODE	RBV-602-01
C626	1-126-059-11 ELECT	10uF	20%	50V	D614	8-719-200-02 DIODE	10E2
C627	1-126-062-11 ELECT	47uF	20%	63V	D615	8-719-200-02 DIODE	10E2
C628	1-124-472-11 ELECT	470uF	20%	10V	D616	8-719-013-82 DIODE	UZ-39BSD-TP
				D620	8-719-987-63 DIODE	1N4148M	
< CONNECTOR >				D621	8-719-987-63 DIODE	1N4148M	
CN101	1-691-765-11 PLUG (MICRO CONNECTOR) 3P			D622	8-719-987-63 DIODE	1N4148M	
CN102	1-691-765-21 PLUG (MICRO CONNECTOR) 3P						

MAIN

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark		
< IC >													
IC101	8-759-184-02	IC	NJM2068L-D			R019	1-259-422-11	CARBON	560	5%	1/6W		
IC102	8-759-805-14	IC	LC7822			R020	1-259-468-11	CARBON	47K	5%	1/6W		
IC103	8-759-805-13	IC	LC7821			R021	1-259-442-11	CARBON	3.9K	5%	1/6W		
IC104	8-759-805-14	IC	LC7822			△R022	1-212-994-00	FUSIBLE	330	5%	1/2W F		
IC106	8-759-634-50	IC	M5218AL			△R023	1-212-849-00	FUSIBLE	4.7	5%	1/4W F		
IC600	8-759-284-57	IC	HD6433258B44F			△R024	1-212-849-00	FUSIBLE	4.7	5%	1/4W F		
IC601	8-759-231-58	IC	TA7812S			R025	1-217-611-00	RES, METAL PLATE	0.1		2W		
IC602	8-759-245-86	IC	TA7912S			R026	1-217-611-00	RES, METAL PLATE	0.1		2W		
IC603	8-759-231-53	IC	TA7805S			R027	1-259-432-11	CARBON	1.5K	5%	1/6W		
IC604	8-759-245-79	IC	TA79005S			R028	1-259-456-11	CARBON	15K	5%	1/6W		
< JACK >													
J101	1-764-729-11	JACK, PIN 4P	(PHONO, TUNER)			R100	1-259-436-11	CARBON	2.2K	5%	1/6W (G)		
J102	1-764-729-11	JACK, PIN 4P	(CD, TAPE REC OUT)			R101	1-259-416-11	CARBON	330	5%	1/6W		
J103	1-573-520-11	JACK, PIN 4P	(TAPE IN, DAT/MD REC OUT)			R102	1-259-476-11	CARBON	100K	5%	1/6W		
J104	1-691-260-11	JACK, PIN 6P	(LD, VIDEO 3)			R103	1-259-476-11	CARBON	100K	5%	1/6W		
J105	1-691-260-11	JACK, PIN 6P	(VIDEO 2, VIDEO 1 REC OUT)			R104	1-259-426-11	CARBON	820	5%	1/6W		
J106	1-764-730-11	JACK, PIN 4P	(VIDEO 1 IN, AUDIO OUT)			R105	1-259-494-11	CARBON	560K	5%	1/6W		
J109	1-573-520-11	JACK, PIN 4P	(DAT/MD IN, TV)			R106	1-259-468-11	CARBON	47K	5%	1/6W		
< TRANSISTOR >													
Q008	8-729-141-89	TRANSISTOR	2SD1585-K			R107	1-259-476-11	CARBON	100K	5%	1/6W		
Q009	8-729-141-58	TRANSISTOR	2SC2275A-QP			R108	1-259-412-11	CARBON	220	5%	1/6W		
Q010	8-729-141-10	TRANSISTOR	2SA985A-QP			R109	1-259-412-11	CARBON	220	5%	1/6W		
Q011	8-729-383-73	TRANSISTOR	2SC2837			R110	1-259-428-11	CARBON	1K	5%	1/6W		
Q012	8-729-318-63	TRANSISTOR	2SA1186			R111	1-259-444-11	CARBON	4.7K	5%	1/6W		
Q013	8-729-140-82	TRANSISTOR	2SA988-PAFAEA			R112	1-259-452-11	CARBON	10K	5%	1/6W		
Q508	8-729-141-89	TRANSISTOR	2SD1585-K			R113	1-259-428-11	CARBON	1K	5%	1/6W		
Q509	8-729-141-58	TRANSISTOR	2SC2275A-QP			R114	1-259-428-11	CARBON	1K	5%	1/6W		
Q510	8-729-141-10	TRANSISTOR	2SA985A-QP			R115	1-259-428-11	CARBON	1K	5%	1/6W		
Q511	8-729-383-73	TRANSISTOR	2SC2837			R116	1-259-428-11	CARBON	1K	5%	1/6W		
Q512	8-729-318-63	TRANSISTOR	2SA1186			R117	1-259-428-11	CARBON	1K	5%	1/6W		
Q513	8-729-140-82	TRANSISTOR	2SA988-PAFAEA			R118	1-259-428-11	CARBON	1K	5%	1/6W		
Q558	8-729-141-89	TRANSISTOR	2SD1585-K			R119	1-259-428-11	CARBON	1K	5%	1/6W		
Q559	8-729-141-58	TRANSISTOR	2SC2275A-QP			R120	1-259-428-11	CARBON	1K	5%	1/6W		
Q560	8-729-141-10	TRANSISTOR	2SA985A-QP			R121	1-259-428-11	CARBON	1K	5%	1/6W		
Q561	8-729-383-73	TRANSISTOR	2SC2837			R122	1-259-428-11	CARBON	1K	5%	1/6W		
Q562	8-729-318-63	TRANSISTOR	2SA1186			R123	1-259-428-11	CARBON	1K	5%	1/6W		
Q563	8-729-140-82	TRANSISTOR	2SA988-PAFAEA			R138	1-259-404-11	CARBON	100	5%	1/6W		
Q601	8-729-140-96	TRANSISTOR	2SD774-34			R139	1-259-476-11	CARBON	100K	5%	1/6W		
Q602	8-729-900-36	TRANSISTOR	DTC124ES			R140	1-259-444-11	CARBON	4.7K	5%	1/6W		
Q603	8-729-900-63	TRANSISTOR	DTA124ES			R141	1-259-428-11	CARBON	1K	5%	1/6W		
Q604	8-729-119-79	TRANSISTOR	2SC2785-FEK			R150	1-259-436-11	CARBON	2.2K	5%	1/6W (G)		
Q605	8-729-900-61	TRANSISTOR	DTA114ES			R151	1-259-416-11	CARBON	330	5%	1/6W		
< RESISTOR >													
△R016	1-212-881-11	FUSIBLE		100	5%	1/4W	F	R152	1-259-476-11	CARBON	100K	5%	1/6W
△R017	1-212-881-11	FUSIBLE		100	5%	1/4W	F	R153	1-259-476-11	CARBON	100K	5%	1/6W
R018	1-259-432-11	CARBON		1.5K	5%	1/6W		R154	1-259-426-11	CARBON	820	5%	1/6W
								R155	1-259-494-11	CARBON	560K	5%	1/6W
								R156	1-259-468-11	CARBON	47K	5%	1/6W
								R157	1-259-476-11	CARBON	100K	5%	1/6W
								R158	1-259-412-11	CARBON	220	5%	1/6W
								R159	1-259-412-11	CARBON	220	5%	1/6W

The components identified by mark **△** or dotted line with mark **△** are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R160	1-259-428-11	CARBON	1K 5% 1/6W	R608	1-259-444-11	CARBON	4.7K 5% 1/6W
R161	1-259-444-11	CARBON	4.7K 5% 1/6W	R611	1-249-433-11	CARBON	22K 5% 1/4W
R162	1-259-452-11	CARBON	10K 5% 1/6W	R612	1-249-433-11	CARBON	22K 5% 1/4W
R163	1-259-428-11	CARBON	1K 5% 1/6W	R613	1-249-433-11	CARBON	22K 5% 1/4W
R164	1-259-428-11	CARBON	1K 5% 1/6W	R614	1-249-433-11	CARBON	22K 5% 1/4W
R165	1-259-428-11	CARBON	1K 5% 1/6W	R615	1-249-433-11	CARBON	22K 5% 1/4W
R166	1-259-428-11	CARBON	1K 5% 1/6W	R616	1-249-433-11	CARBON	22K 5% 1/4W
R167	1-259-428-11	CARBON	1K 5% 1/6W	R617	1-249-433-11	CARBON	22K 5% 1/4W
R168	1-259-428-11	CARBON	1K 5% 1/6W	R618	1-249-433-11	CARBON	22K 5% 1/4W
R169	1-259-428-11	CARBON	1K 5% 1/6W	R619	1-249-433-11	CARBON	22K 5% 1/4W
R170	1-259-428-11	CARBON	1K 5% 1/6W	R620	1-249-433-11	CARBON	22K 5% 1/4W
R171	1-259-428-11	CARBON	1K 5% 1/6W	R621	1-249-433-11	CARBON	22K 5% 1/4W
R172	1-259-428-11	CARBON	1K 5% 1/6W	R622	1-249-433-11	CARBON	22K 5% 1/4W
R173	1-259-428-11	CARBON	1K 5% 1/6W	R623	1-249-433-11	CARBON	22K 5% 1/4W
R188	1-259-404-11	CARBON	100 5% 1/6W	R624	1-249-433-11	CARBON	22K 5% 1/4W
R189	1-259-476-11	CARBON	100K 5% 1/6W	R625	1-249-433-11	CARBON	22K 5% 1/4W
R191	1-259-428-11	CARBON	1K 5% 1/6W	R626	1-249-433-11	CARBON	22K 5% 1/4W
△R516	1-212-881-11	FUSIBLE	100 5% 1/4W F	R627	1-249-433-11	CARBON	22K 5% 1/4W
△R517	1-212-881-11	FUSIBLE	100 5% 1/4W F	R628	1-249-433-11	CARBON	22K 5% 1/4W
R518	1-259-432-11	CARBON	1.5K 5% 1/6W	R629	1-249-433-11	CARBON	22K 5% 1/4W
R519	1-259-422-11	CARBON	560 5% 1/6W	R630	1-249-433-11	CARBON	22K 5% 1/4W
R520	1-259-468-11	CARBON	47K 5% 1/6W	R631	1-249-433-11	CARBON	22K 5% 1/4W
R521	1-259-442-11	CARBON	3.9K 5% 1/6W	R632	1-249-433-11	CARBON	22K 5% 1/4W
△R522	1-212-994-00	FUSIBLE	330 5% 1/2W F	R633	1-249-433-11	CARBON	22K 5% 1/4W
△R523	1-212-849-00	FUSIBLE	4.7 5% 1/4W F	R634	1-249-433-11	CARBON	22K 5% 1/4W
△R524	1-212-849-00	FUSIBLE	4.7 5% 1/4W F	R635	1-249-433-11	CARBON	22K 5% 1/4W
R525	1-217-611-00	RES, METAL PLATE	0.1 2W	R636	1-249-433-11	CARBON	22K 5% 1/4W
R526	1-217-611-00	RES, METAL PLATE	0.1 2W	R637	1-249-433-11	CARBON	22K 5% 1/4W
R527	1-259-432-11	CARBON	1.5K 5% 1/6W	R638	1-249-433-11	CARBON	22K 5% 1/4W
R528	1-259-456-11	CARBON	15K 5% 1/6W	R639	1-249-433-11	CARBON	22K 5% 1/4W
△R566	1-212-881-11	FUSIBLE	100 5% 1/4W F	R640	1-249-433-11	CARBON	22K 5% 1/4W
△R567	1-212-881-11	FUSIBLE	100 5% 1/4W F	R641	1-249-433-11	CARBON	22K 5% 1/4W
R568	1-259-432-11	CARBON	1.5K 5% 1/6W	R642	1-249-433-11	CARBON	22K 5% 1/4W
R569	1-259-422-11	CARBON	560 5% 1/6W	R643	1-249-433-11	CARBON	22K 5% 1/4W
R570	1-259-468-11	CARBON	47K 5% 1/6W	R644	1-249-433-11	CARBON	22K 5% 1/4W
R571	1-259-442-11	CARBON	3.9K 5% 1/6W	R645	1-249-433-11	CARBON	22K 5% 1/4W
△R572	1-212-994-00	FUSIBLE	330 5% 1/2W F	R646	1-249-433-11	CARBON	22K 5% 1/4W
△R573	1-212-849-00	FUSIBLE	4.7 5% 1/4W F	R647	1-249-433-11	CARBON	22K 5% 1/4W
△R574	1-212-849-00	FUSIBLE	4.7 5% 1/4W F	R648	1-249-433-11	CARBON	22K 5% 1/4W
R575	1-217-611-00	RES, METAL PLATE	0.1 2W	R649	1-249-433-11	CARBON	22K 5% 1/4W
R576	1-217-611-00	RES, METAL PLATE	0.1 2W	R650	1-249-433-11	CARBON	22K 5% 1/4W
R577	1-259-432-11	CARBON	1.5K 5% 1/6W	R651	1-249-435-11	CARBON	33K 5% 1/4W
R578	1-259-456-11	CARBON	15K 5% 1/6W	R652	1-249-435-11	CARBON	33K 5% 1/4W
△R605	1-212-950-00	FUSIBLE	4.7 5% 1/2W F (AEP2)	R653	1-249-435-11	CARBON	33K 5% 1/4W
△R606	1-212-950-00	FUSIBLE	4.7 5% 1/2W F (AEP2)	R654	1-249-441-11	CARBON	100K 5% 1/4W
△R607	1-212-986-00	FUSIBLE	150 5% 1/2W F (AEP1, E, G)	R655	1-259-428-11	CARBON	1K 5% 1/6W
△R607	1-212-990-00	FUSIBLE	220 5% 1/2W F (AEP2)	R656	1-259-444-11	CARBON	4.7K 5% 1/6W
							< VIBRATOR >
X601	1-567-928-11	VIBLATOR, CERAMIC (20MHz)					

The components identified by mark **△** or dotted line with mark **△** are critical for safety.
Replace only with part number specified.

MAIN P-SW PANEL

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>						
< GROUND PLATE >													
* Y602	4-942-204-01	PLATE, GROUND		D801	8-719-987-63	DIODE	1N4148M						
* Y603	4-870-539-00	PLATE, GROUND		D802	8-719-987-63	DIODE	1N4148M						

*	1-652-506-11	P-SW BOARD	*****	D803	8-719-987-63	DIODE	1N4148M						
				D804	8-719-987-63	DIODE	1N4148M						
				D805	8-719-313-48	DIODE	SEL3210S-TH12						
< CONNECTOR >													
* CN805	1-561-651-00	SOCKET, CONNECTOR 7P		D806	8-719-987-63	DIODE	1N4148M						
				D807	8-719-987-63	DIODE	1N4148M						
				D808	8-719-987-63	DIODE	1N4148M						
< SWITCH >													
S801	1-554-303-21	SWITCH, TACTILE (POWER)		< FLUORESCENT INDICATOR >									

*	A-4371-604-A	PANEL BOARD, COMPLETE	*****	FL801	1-517-244-11	INDICATOR TUBE, FLUORESCENT							
< CAPACITOR >													
C409	1-126-059-11	ELECT	10uF 20%	50V	< IC >								
C412	1-130-481-00	MYLAR	0.0068uF	5%	50V	IC801	8-759-284-56	IC	HD6433248B43F				
C413	1-136-163-00	FILM	0.068uF	5%	50V	IC802	8-759-075-35	IC	TD62C950RF				
C414	1-130-477-00	MYLAR	0.0033uF	5%	50V	IC803	8-759-075-35	IC	TD62C950RF				
C415	1-136-159-00	FILM	0.033uF	5%	50V	IC804	8-741-100-48	IC	SBX1610-59				
< RESISTOR >													
C459	1-126-059-11	ELECT	10uF	20%	50V	< TRANSISTOR >							
C462	1-130-481-00	MYLAR	0.0068uF	5%	50V	Q801	8-729-900-36	TRANSISTOR	DTC124ES				
C463	1-136-163-00	FILM	0.068uF	5%	50V	Q802	8-729-900-63	TRANSISTOR	DTA124ES				
C464	1-130-477-00	MYLAR	0.0033uF	5%	50V	Q803	8-729-900-63	TRANSISTOR	DTA124ES				
C465	1-136-159-00	FILM	0.033uF	5%	50V	Q804	8-729-900-36	TRANSISTOR	DTC124ES				
< CONNECTOR >													
C801	1-164-159-11	CERAMIC	0.1uF		50V	R416	1-249-434-11	CARBON		27K	5%	1/4W	
C802	1-164-159-11	CERAMIC	0.1uF		50V	R417	1-249-422-11	CARBON		2.7K	5%	1/4W	F
C803	1-124-598-11	ELECT	22uF	20%	25V	R418	1-249-426-11	CARBON		5.6K	5%	1/4W	
C804	1-124-598-11	ELECT	22uF	20%	25V	R419	1-249-414-11	CARBON		560	5%	1/4W	F
C805	1-164-159-11	CERAMIC	0.1uF		50V	R466	1-249-434-11	CARBON		27K	5%	1/4W	
C806	1-164-159-11	CERAMIC	0.1uF		50V	R467	1-249-422-11	CARBON		2.7K	5%	1/4W	F
C807	1-164-159-11	CERAMIC	0.1uF		50V	R468	1-249-426-11	CARBON		5.6K	5%	1/4W	
C808	1-124-902-00	ELECT	0.47uF	20%	50V	R469	1-249-414-11	CARBON		560	5%	1/4W	F
C809	1-125-486-11	DOUBLE LAYERS	0.22F		5.5V	R801	1-249-429-11	CARBON		10K	5%	1/4W	
C810	1-164-159-11	CERAMIC	0.1uF		50V	R802	1-249-417-11	CARBON		1K	5%	1/4W	F
C811	1-164-159-11	CERAMIC	0.1uF		50V	R803	1-249-433-11	CARBON		22K	5%	1/4W	
CN406	1-691-771-11	PLUG (MICRO CONNECTOR) 9P				R804	1-249-417-11	CARBON		1K	5%	1/4W	F
CN801	1-695-376-11	PIN, CONNECTOR (PC BOARD) 15P				R805	1-249-417-11	CARBON		1K	5%	1/4W	F
* CN802	1-506-509-11	PIN, CONNECTOR 4P				R806	1-249-417-11	CARBON		1K	5%	1/4W	F
* CN804	1-560-532-00	PIN, CONNECTOR 7P				R807	1-249-429-11	CARBON		10K	5%	1/4W	
						R808	1-259-380-11	CARBON		10	5%	1/6W	
						R809	1-249-425-11	CARBON		4.7K	5%	1/4W	F
						R810	1-249-425-11	CARBON		4.7K	5%	1/4W	F
						R811	1-249-411-11	CARBON		330	5%	1/4W	
						R812	1-259-404-11	CARBON		100	5%	1/6W	
						R813	1-249-425-11	CARBON		4.7K	5%	1/4W	F
						R814	1-249-425-11	CARBON		4.7K	5%	1/4W	F
						R815	1-249-425-11	CARBON		4.7K	5%	1/4W	F
						R816	1-249-425-11	CARBON		4.7K	5%	1/4W	F

PANEL **SIRCS** **VIDEO**

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			<u>Remark</u>
R817	1-249-425-11	CARBON	4.7K	5%	1/4W F	*	A-4371-115-A	VIDEO BOARD, COMPLETE	*****		
R820	1-249-417-11	CARBON	1K	5%	1/4W F			< CAPACITOR >			
R821	1-249-425-11	CARBON	4.7K	5%	1/4W F						
R822	1-249-417-11	CARBON	1K	5%	1/4W F						
	< VARIABLE RESISTOR >					C1001	1-124-471-00	ELECT	1000uF	20%	6.3V
RV402	1-238-157-11	RES, VAR, CARBON	100K/100K	(BASS)		C1002	1-124-471-00	ELECT	1000uF	20%	6.3V
RV403	1-238-157-11	RES, VAR, CARBON	100K/100K	(TREBLE)		C1003	1-124-471-00	ELECT	1000uF	20%	6.3V
RV404	1-238-156-11	RES, VAR, CARBON	250K/250K	(BALANCE)		C1004	1-124-471-00	ELECT	1000uF	20%	6.3V
	< VIBLATOR >					C1005	1-124-471-00	ELECT	1000uF	20%	6.3V
X801	1-567-928-11	VIBRATOR, CERAMIC	(20MHz)			C1006	1-124-907-11	ELECT	10uF	20%	50V

*	1-652-500-11	SIRCS BOARD (E)	*****			C1007	1-124-907-11	ELECT	10uF	20%	50V
*	1-653-796-11	SIRCS BOARD (AEP1, AEP2, G)	*****			C1008	1-124-907-11	ELECT	10uF	20%	50V
	< CAPACITOR >					C1009	1-126-101-11	ELECT	100uF	20%	16V
C661	1-124-907-11	ELECT	10uF	20%	50V	C1010	1-126-101-11	ELECT	100uF	20%	16V
	< CONNECTOR >					C1011	1-124-925-11	ELECT	2.2uF	20%	100V
* CN661	1-691-174-11	CONNECTOR (BOARD TO BOARD)	4P			C1012	1-126-101-11	ELECT	100uF	20%	16V
	< DIODE >					C1013	1-126-101-11	ELECT	100uF	20%	16V
D660	8-719-987-63	DIODE	1N4148M			C1101	1-124-471-00	ELECT	1000uF	20%	6.3V
D661	8-719-987-63	DIODE	1N4148M			C1102	1-136-165-00	FILM	0.1uF	5%	50V
	< JACK >					C1103	1-124-907-11	ELECT	10uF	20%	50V
J661	1-566-740-11	JACK (CONTROL S OUT)				C1104	1-124-907-11	ELECT	10uF	20%	50V
J662	1-566-740-11	JACK (CONTROL S IN)				C1105	1-136-165-00	FILM	0.1uF	5%	50V
	< TRANSISTOR >					C1106	1-124-471-00	ELECT	1000uF	20%	6.3V
Q661	8-729-900-80	TRANSISTOR	DTC114ES			C1107	1-136-165-00	FILM	0.1uF	5%	50V
Q662	8-729-900-61	TRANSISTOR	DTA114ES			C1108	1-124-471-00	ELECT	1000uF	20%	6.3V
Q663	8-729-900-80	TRANSISTOR	DTC114ES			C1109	1-136-165-00	FILM	0.1uF	5%	50V
	< RESISTOR >					C1110	1-124-907-11	ELECT	10uF	20%	50V
R660	1-249-429-11	CARBON	10K	5%	1/4W	C1111	1-124-907-11	ELECT	10uF	20%	50V
R661	1-249-421-11	CARBON	2.2K	5%	1/4W F	C1112	1-124-925-11	ELECT	2.2uF	20%	100V

	< IC >					C1113	1-126-101-11	ELECT	100uF	20%	16V
	< JACK >					C1114	1-126-101-11	ELECT	100uF	20%	16V
	< CONNECTOR >					C1115	1-126-101-11	ELECT	100uF	20%	16V
	< JACK >					C1116	1-126-101-11	ELECT	100uF	20%	16V
	CN1001 1-691-178-11 CONNECTOR (BOARD TO BOARD) 8P										
	CN1002 1-691-767-11 PLUG (MICRO CONNECTOR) 5P										
	< IC >										
	IC1001 8-759-261-99 IC MC14576CP										
	IC1002 8-759-805-13 IC LC7821										
	IC1003 8-759-805-14 IC LC7822										
	IC1101 8-759-261-99 IC MC14576CP										
	IC1102 8-759-261-99 IC MC14576CP										
	IC1103 8-759-805-13 IC LC7821										
	IC1104 8-759-805-14 IC LC7822										
	< JACK >										
	J1001 1-568-751-51 JACK, PIN (2P SHIELD TYPE) (MONITOR)										

VIDEO

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
J1002	1-568-751-51	JACK, PIN (2P SHIELD TYPE)				R1019	1-249-413-11	CARBON	470	5%	1/4W F
		(VIDEO 1 IN/OUT)				R1020	1-247-807-31	CARBON	100	5%	1/4W
J1003	1-568-752-51	JACK, PIN (3P SHIELD TYPE)				R1021	1-247-804-11	CARBON	75	5%	1/4W
		(VIDEO 3 IN, VIDEO 2 IN/OUT)				R1022	1-247-804-11	CARBON	75	5%	1/4W
J1004	1-568-752-51	JACK, PIN (3P SHIELD TYPE)				R1023	1-247-804-11	CARBON	75	5%	1/4W
		(TV IN, LD IN, VIDEO 3 OUT)				R1024	1-247-804-11	CARBON	75	5%	1/4W
J1101	1-764-676-11	CONNECTOR (ROUND TYPE)				R1025	1-247-804-11	CARBON	75	5%	1/4W
		(VIDEO 1 IN, MONITOR OUT)									
J1102	1-764-676-11	CONNECTOR (ROUND TYPE)				R1026	1-247-895-00	CARBON	470K	5%	1/4W
		(VIDEO 1 OUT, VIDEO 2 IN)				R1027	1-249-422-11	CARBON	2.7K	5%	1/4W F
J1103	1-764-676-11	CONNECTOR (ROUND TYPE)				R1028	1-249-428-11	CARBON	8.2K	5%	1/4W F
		(VIDEO 2 OUT, LD IN)				R1029	1-247-887-00	CARBON	220K	5%	1/4W
		< COIL >				R1030	1-249-439-11	CARBON	68K	5%	1/4W
L1001	1-410-521-11	INDUCTOR	100uH			R1031	1-249-425-11	CARBON	4.7K	5%	1/4W F
L1002	1-410-521-11	INDUCTOR	100uH			R1101	1-249-403-11	CARBON	68	5%	1/4W F
L1003	1-410-521-11	INDUCTOR	100uH			R1102	1-249-403-11	CARBON	68	5%	1/4W F
L1004	1-410-521-11	INDUCTOR	100uH			R1103	1-249-429-11	CARBON	10K	5%	1/4W
		< TRANSISTOR >				R1104	1-249-429-11	CARBON	10K	5%	1/4W
Q1001	8-729-119-77	TRANSISTOR	2SA1175-FEK			R1105	1-247-895-00	CARBON	470K	5%	1/4W
Q1002	8-729-119-77	TRANSISTOR	2SA1175-FEK			R1106	1-249-441-11	CARBON	100K	5%	1/4W
Q1003	8-729-119-77	TRANSISTOR	2SA1175-FEK			R1107	1-249-422-11	CARBON	2.7K	5%	1/4W F
Q1004	8-729-119-77	TRANSISTOR	2SA1175-FEK			R1108	1-249-428-11	CARBON	8.2K	5%	1/4W F
Q1005	8-729-119-77	TRANSISTOR	2SA1175-FEK			R1109	1-249-403-11	CARBON	68	5%	1/4W F
Q1006	8-729-119-79	TRANSISTOR	2SC2785-FEK			R1110	1-249-403-11	CARBON	68	5%	1/4W F
Q1101	8-729-119-79	TRANSISTOR	2SC2785-FEK			R1111	1-249-429-11	CARBON	10K	5%	1/4W
Q1102	8-729-119-77	TRANSISTOR	2SA1175-FEK			R1112	1-249-429-11	CARBON	10K	5%	1/4W
Q1103	8-729-119-77	TRANSISTOR	2SA1175-FEK			R1113	1-249-413-11	CARBON	470	5%	1/4W F
Q1104	8-729-119-77	TRANSISTOR	2SA1175-FEK			R1114	1-249-413-11	CARBON	470	5%	1/4W F
Q1105	8-729-119-77	TRANSISTOR	2SA1175-FEK			R1115	1-249-429-11	CARBON	10K	5%	1/4W
		< RESISTOR >				R1117	1-247-807-31	CARBON	100	5%	1/4W
R1001	1-249-403-11	CARBON	68	5%	1/4W F	R1118	1-247-807-31	CARBON	100	5%	1/4W
R1002	1-249-429-11	CARBON	10K	5%	1/4W	R1119	1-249-403-11	CARBON	68	5%	1/4W F
R1003	1-249-413-11	CARBON	470	5%	1/4W F	R1120	1-249-403-11	CARBON	68	5%	1/4W F
R1004	1-247-807-31	CARBON	100	5%	1/4W						
R1005	1-249-403-11	CARBON	68	5%	1/4W F	R1121	1-249-429-11	CARBON	10K	5%	1/4W
R1006	1-249-429-11	CARBON	10K	5%	1/4W	R1122	1-249-429-11	CARBON	10K	5%	1/4W
R1007	1-249-413-11	CARBON	470	5%	1/4W F	R1123	1-249-413-11	CARBON	470	5%	1/4W F
R1008	1-247-807-31	CARBON	100	5%	1/4W	R1124	1-249-413-11	CARBON	470	5%	1/4W F
R1009	1-249-403-11	CARBON	68	5%	1/4W F	R1125	1-249-429-11	CARBON	10K	5%	1/4W
R1010	1-249-429-11	CARBON	10K	5%	1/4W						
R1011	1-249-413-11	CARBON	470	5%	1/4W F	R1127	1-247-807-31	CARBON	100	5%	1/4W
R1012	1-247-807-31	CARBON	100	5%	1/4W	R1128	1-247-807-31	CARBON	100	5%	1/4W
R1013	1-249-403-11	CARBON	68	5%	1/4W F	R1129	1-247-804-11	CARBON	75	5%	1/4W
R1014	1-249-429-11	CARBON	10K	5%	1/4W	R1130	1-247-804-11	CARBON	75	5%	1/4W
R1015	1-249-413-11	CARBON	470	5%	1/4W F	R1131	1-247-804-11	CARBON	75	5%	1/4W
R1016	1-247-807-31	CARBON	100	5%	1/4W	R1132	1-247-804-11	CARBON	75	5%	1/4W
R1017	1-249-403-11	CARBON	68	5%	1/4W F	R1133	1-247-804-11	CARBON	75	5%	1/4W
R1018	1-249-429-11	CARBON	10K	5%	1/4W	R1134	1-247-804-11	CARBON	75	5%	1/4W
						R1135	1-249-441-11	CARBON	100K	5%	1/4W
						R1136	1-247-887-00	CARBON	220K	5%	1/4W
						R1137	1-247-887-00	CARBON	220K	5%	1/4W
						R1138	1-249-441-11	CARBON	100K	5%	1/4W
						R1139	1-249-425-11	CARBON	4.7K	5%	1/4W F

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark

*	1-652-510-11	VIDEO 4 BOARD				C456	1-164-096-11	CERAMIC	0.01uF		50V
		*****				C458	1-126-022-11	ELECT	47uF	20%	16V
						C460	1-162-211-31	CERAMIC	33PF	5%	50V
						C461	1-110-335-11	MYLAR	100PF	5%	50V
								< CONNECTOR >			

								< CAPACITOR >			
						C1117	1-162-284-31	CERAMIC	150PF	10%	50V (G)
						C1118	1-162-284-31	CERAMIC	150PF	10%	50V (G)
								< CONNECTOR >			

								< PLUG, CONNECTOR 4P >			
								* CN1201 1-564-519-11 PLUG, CONNECTOR 4P			
								* CN1202 1-564-521-11 PLUG, CONNECTOR 6P			
								< PLUG, CONNECTOR 6P >			
								< DIODE >			

								< JACK >			
								J1201 1-764-190-11 JACK, PIN 3P (VIDEO 4)			
								< RESISTOR >			

						R1201	1-249-417-11	CARBON	1K	5%	1/4W F
						R1202	1-249-417-11	CARBON	1K	5%	1/4W F
						R1203	1-247-804-11	CARBON	75	5%	1/4W
						R1204	1-247-804-11	CARBON	75	5%	1/4W
						R1205	1-247-804-11	CARBON	75	5%	1/4W
								< IC >			

*	A-4371-682-A	VOL BOARD, COMPLETE (AEP1, AEP2, G)				IC402	8-759-051-63	IC	TC9215P		
		*****				IC403	8-759-634-50	IC	M5218AL		
*	A-4371-768-A	VOL BOARD, COMPLETE (E)				IC404	8-759-824-12	IC	LC7536		
		*****				IC405	8-759-051-63	IC	TC9215P		
						IC406	8-759-962-08	IC	BA6208		
						IC407	8-759-634-50	IC	M5218AL		
						IC408	8-759-634-50	IC	M5218AL		
						IC409	8-759-634-50	IC	M5218AL		
								< TRANSISTOR >			

*	A-4371-768-A	VOL BOARD, COMPLETE (E)				Q401	8-729-141-30	TRANSISTOR	2SC3623A-LK		
		*****				Q402	8-729-141-30	TRANSISTOR	2SC3623A-LK		
						Q403	8-729-141-30	TRANSISTOR	2SC3623A-LK		
						Q404	8-729-900-63	TRANSISTOR	DTA124ES		
						Q451	8-729-141-30	TRANSISTOR	2SC3623A-LK		
								< RESISTOR >			

						R401	1-259-484-11	CARBON	220K	5%	1/6W
						R402	1-259-444-11	CARBON	4.7K	5%	1/6W
						R403	1-259-452-11	CARBON	10K	5%	1/6W
						R404	1-247-717-11	CARBON	2.2K	5%	1/4W F
						R405	1-259-436-11	CARBON	2.2K	5%	1/6W
						R407	1-259-428-11	CARBON	1K	5%	1/6W
						R408	1-259-428-11	CARBON	1K	5%	1/6W
						R409	1-259-428-11	CARBON	1K	5%	1/6W
						R411	1-259-484-11	CARBON	220K	5%	1/6W
						R412	1-259-454-11	CARBON	12K	5%	1/6W
						R413	1-259-484-11	CARBON	220K	5%	1/6W
						R414	1-259-430-11	CARBON	1.2K	5%	1/6W
						R415	1-259-452-11	CARBON	10K	5%	1/6W
						R420	1-259-484-11	CARBON	220K	5%	1/6W
						R421	1-259-430-11	CARBON	1.2K	5%	1/6W
						R422	1-259-460-11	CARBON	22K	5%	1/6W

VOL

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark	
R423	1-259-436-11	CARBON	2.2K 5%	1/6W	FL801	1-517-244-11	INDICATOR TUBE, FLUORESCENT	
R424	1-259-476-11	CARBON	100K 5%	1/6W	IC601	8-759-231-58	IC TA7812S	
R425	1-249-385-11	CARBON	2.2 5%	1/6W F	IC602	8-759-245-86	IC TA7912S	
R426	1-259-404-11	CARBON	100 5%	1/6W	IC603	8-759-231-53	IC TA7805S	
R427	1-259-404-11	CARBON	100 5%	1/6W	Q008	8-729-141-89	TRANSISTOR 2SD1585-K	
R451	1-259-484-11	CARBON	220K 5%	1/6W	Q011	8-729-383-73	TRANSISTOR 2SC2837	
R452	1-259-444-11	CARBON	4.7K 5%	1/6W	Q012	8-729-318-63	TRANSISTOR 2SA1186	
R453	1-259-452-11	CARBON	10K 5%	1/6W	Q508	8-729-141-89	TRANSISTOR 2SD1585-K	
R454	1-247-717-11	CARBON	2.2K 5%	1/4W F	Q511	8-729-383-73	TRANSISTOR 2SC2837	
R455	1-259-436-11	CARBON	2.2K 5%	1/6W	Q512	8-729-318-63	TRANSISTOR 2SA1186	
R456	1-249-421-11	CARBON	2.2K 5%	1/4W F	Q558	8-729-141-89	TRANSISTOR 2SD1585-K	
R457	1-259-428-11	CARBON	1K 5%	1/6W	Q561	8-729-383-73	TRANSISTOR 2SC2837	
R458	1-259-428-11	CARBON	1K 5%	1/6W	Q562	8-729-318-63	TRANSISTOR 2SA1186	
R459	1-259-428-11	CARBON	1K 5%	1/6W	▲T1	1-426-948-11	TRANSFORMER, POWER (AEP1, G)	
R460	1-259-476-11	CARBON	100K 5%	1/6W	▲T1	1-426-949-11	TRANSFORMER, POWER (AEP2)	
R461	1-259-484-11	CARBON	220K 5%	1/6W	▲T1	1-426-950-11	TRANSFORMER, POWER (E)	
R462	1-259-454-11	CARBON	12K 5%	1/6W	*****	*****	*****	
R463	1-259-484-11	CARBON	220K 5%	1/6W				
R464	1-259-430-11	CARBON	1.2K 5%	1/6W				
R465	1-259-452-11	CARBON	10K 5%	1/6W				
R474	1-259-476-11	CARBON	100K 5%	1/6W				
< VARIABLE RESISTOR >								
RV401	1-241-563-31	RES, VAR, CARBON	100KX4	(MASTER VOLUME)				
< RELAY >								
RY401	1-515-727-11	RELAY						

MISCELLANEOUS								

12	1-590-882-11	WIRE, FLAT TYPE (15 CORE)						
▲51	1-559-297-31	CODE, POWER (E)						
▲51	1-574-383-11	CORD, POWER (AEP1, AEP2, G)						
▲52	1-569-007-11	ADAPTER, CONVERSION 2P (E)						
60	1-690-782-11	WIRE (FLAT TYPE) (29 CORE)						
▲CNJ902	1-526-794-11	OUTLET, AC (AEP1, AEP2, G)						
▲F1	1-532-237-00	FUSE, TIME LAG (T3.15A 250V)						
▲F2	1-532-237-00	FUSE, TIME LAG (T3.15A 250V) (E)						
▲F2	1-532-286-00	FUSE (2.5A 250V) (AEP, G)						
▲F601	1-532-299-00	FUSE (5.0A 250V)						
▲F602	1-532-299-00	FUSE (5.0A 250V)						
▲F603	1-532-259-00	FUSE (1.6A 250V)						
▲F604	1-532-259-00	FUSE (1.6A 250V)						
▲F605	1-532-259-00	FUSE (1.6A 250V)						
▲F606	1-532-259-00	FUSE (1.6A 250V)						

The components identified by mark ▲ or dotted line with mark ▲ are critical for safety. Replace only with part number specified.

Sony Corporation
Consumer A&V Products Company
Home A&V Products Div.

9-959-647-11

English
94F0961-1
Printed in Japan
© 1994. 6
Published by Home A&V Products Div.
Quality Engineering Dept.

TA-AV790ESD

**SONY.
SERVICE MANUAL**

*AEP Model
E Model*

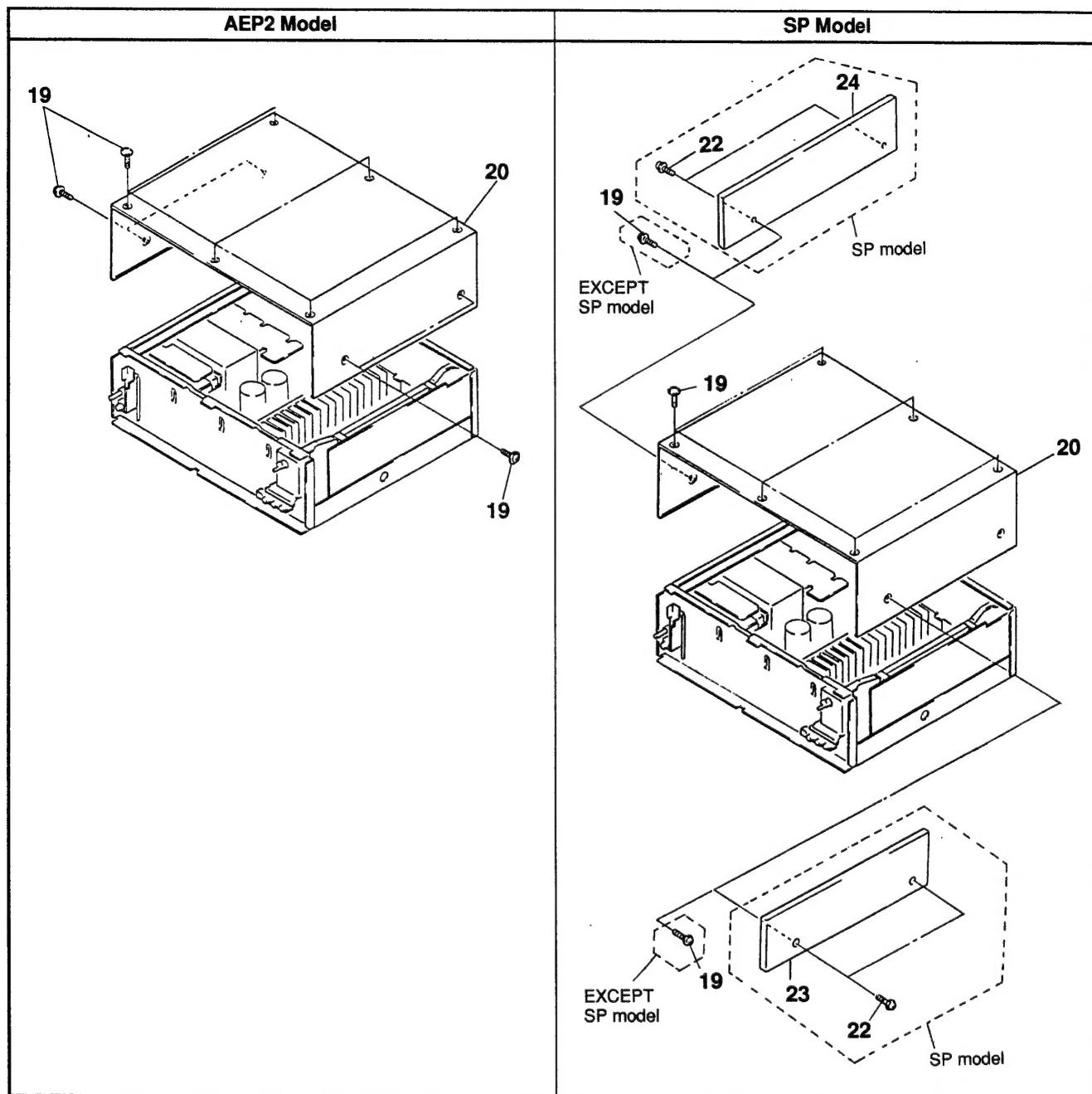
SUPPLEMENT-1

File this Supplement with the service manual.

Subject : Singapore (SP) Model Addition (Titanium color)

- SP Model is similar to earlier AEP2 Model.
- Refer to AEP2 Model for information not contained in this service manual.

EXPLODED VIEWS — FRONT PANEL SECTION — (Page 58)



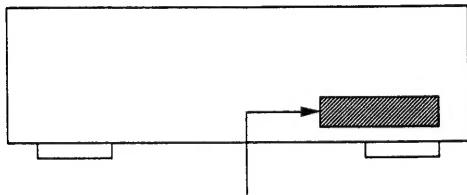
Note:

There are two type of AEP models which are depend on countries.
 AEP2 : Model for Scandinavian countries, Switzerland, Spain and Portugal.
 AEP1 : Model for other European countries.

 : CHANGED PORTION

MODEL IDENTIFICATION

— BACK PANEL —

**TA-AV790ESD :**

- 4-966-126-2□ : AEP1 model
- 4-966-126-3□ : AEP2, Singapore model
- 4-966-126-4□ : German model
- 4-966-126-5□ : E model

NOTE :

- Items marked “ * ” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Abbreviation
 SP : Singapore model.

Page	REF.No.	AEP2 Model	SP Model
58	2	4-966-127-21 PANEL (G), FRONT	4-966-127-31 PANEL (G), FRONT
	3	X-3365-387-1 KNOB (BAL) ASSY	X-4945-053-1 KNOB (BAL) ASSY
	4	X-4942-798-1 KNOB (R53) ASSY	X-4944-864-2 KNOB (R53) ASSY
	9	4-966-142-01 BUTTON (R1)	4-966-142-11 BUTTON (R1)
	13	X-4944-860-1 BUTTON (BASE) ASSY	X-4944-861-1 BUTTON (BASE) ASSY
	15	4-966-139-01 BUTTON (F) (VIDEO)	4-966-139-31 BUTTON (F) (VIDEO)
	16	4-966-139-11 BUTTON (F) (MIX)	4-966-139-41 BUTTON (F) (MIX)
	17	4-966-139-21 BUTTON (F) (AUDIO)	4-966-139-51 BUTTON (F) (AUDIO)
	18	X-4944-858-1 BASE ASSY, FRONT PANEL	X-4944-859-1 BASE ASSY, FRONT PANEL
	19	3-704-360-01 SCREW (CASE) (M3X8)	
59	20	4-966-116-01 CASE	4-966-116-21 CASE
	22	_____	4-933-446-01 SCREW (SIDE PANEL)
	23	_____	X-4945-088-1 PANEL (R) ASSY, SIDE
	24	_____	X-4945-087-1 PANEL (L) ASSY, SIDE
59	64	4-966-140-01 BUTTON (A)	4-966-140-11 BUTTON (A)
61	157	X-4941-617-1 FOOT (58175) ASSY	X-4942-009-1 FOOT (58175) ASSY
78		3-758-588-41 MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, DUTCH)	3-758-588-11 MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, CHINESE)
		4-966-656-01 INDIVIDUAL CARTON	4-973-410-01 INDIVIDUAL CARTON

